# CDP-C900/C9ESD

# SERVICE MANUAL

*US Model*
CDP-C900/C9ESD
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
CDP-C900

## SPECIFICATIONS

| | |
|---|---|
| System | Compact disc digital audio system |
| Disc | Compact disc |
| Laser | Semiconductor laser (λ = 780 nm) |
| Emission duration | Continuous |
| Laser output | Less than 44.6 μW<br>* This output is the value measured through the aperture of 7 mm diameter at a distance of 200 mm from the objective lens surface on the Optical Pickup Block. |
| Frequency response | 2 - 20,000 Hz ± 0.3 dB |
| Signal to noise ratio | More than 105 dB |
| Dynamic range | More than 95 dB |
| Harmonic distortion | Less than 0.004% |
| Channel separation | More than 98 dB (1 kHz) |
| Wow and flutter | Below measurable limit |

Output jacks

| | |
|---|---|
| LINEOUT (phono jacks) | Output level 2 V (at 50 kilohms)<br>Load impedance over 10 kilohms |
| DIGITAL OUT (OPTICAL) (optical output connector) | Wave length 660 nm<br>Output level −18 dBm |
| HEADPHONES (stereo phone jack) | Output level max. 15 mW<br>Load impedance 32 ohms |

| | |
|---|---|
| Power requirements | 120 V AC, 60 Hz |
| Power consumption | 11 W |
| Dimensions | Approx. 430 x 115 x 370 mm (w/h/d)<br>(17 x 4 5/8 x 14 5/8 inches)<br>including projecting parts and controls |
| Weight | Approx. 6.5 kg (14 lb 6 oz.), net |

**Supplied accessories**
Remote commander (1)
Disc magazine (1)
Audio signal connecting cord
(phono plug x 2 ↔ phono plug x 2) (1)
Sony SUM-3 (NS) batteries (2)

**Remote commander RM-D905**

| | |
|---|---|
| Remote control system | Infrared control |
| Power requirements | 3 V DC with two size AA (R6) batteries |
| Dimensions | Approx. 67 x 20 x 175 mm (w/h/d)<br>(2 3/4 x 13/16 x 7 inches) |
| Weight | Approx. 130g (5 oz.) incl. batteries |

Design and specifications subject to change without notice.

MICROFILM

COMPACT DISC PLAYER
SONY®

# Features

**The compact disc player is equipped with an automatic disc changer** which allows you to play up to 10 discs in a row. You can choose from a large number and wide variety of selections.

**A variety of playing modes:**
- **Program play** allows you to play up to 32 selections or the whole disc, in any desired order.
- **Shuffle play** for playing selections in random order.
- **Repeat play** for repeating individual discs, all the discs in a magazine, program and shuffle play.

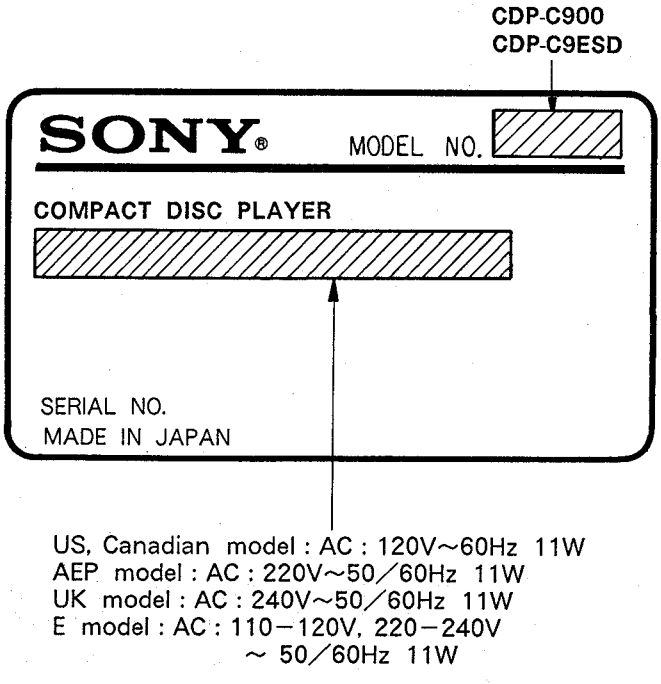
**Fading in/Fading out**
You can begin a selection fading in and end it fading out.

**High quality playback sound with:**
- 8-times oversampling 18-bit digital filter
- Dual D/A converter system

**The optical digital output**
Allows direct connection to a D/A converter or to a digital amplifier having an optical digital input connector.

**The easy-to-use disc magazine**
Allows you to play a particular set of discs at any time simply by inserting the disc magazine into the CD player. Additional magazines (optional) allow you to create a wide variety of sets.

**Differences between the CDP-C9ESD and the CDP-C900**
This instruction manual covers the CDP-C9ESD and the CDP-C900. Their operation is identical. They differ only in the internal circuit specifications and the type of the HEADPHONES jack. A gold-plated jack is used for the CDP-C9ESD, while a standard jack is used for that of the CDP-C900.




US, Canadian model : AC : 120V~60Hz 11W
AEP model : AC : 220V~50/60Hz 11W
UK model : AC : 240V~50/60Hz 11W
E model : AC : 110−120V, 220−240V
~ 50/60Hz 11W

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**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

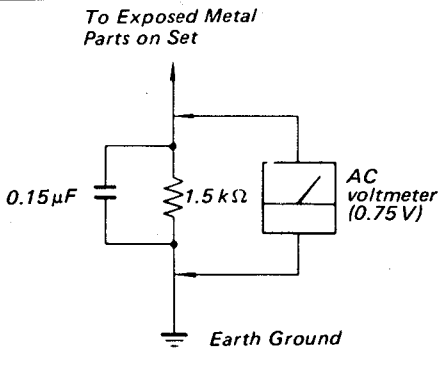



*Fig. A. Using an AC voltmeter to check AC leakage.*

## – SERVICING NOTE –

**NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT**

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

## PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

**CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties
   - Material: GaAlAs
   - Wavelength: 780 nm
   - Emission Duration: continuous
   - Laser Output: max. 44.6 $\mu$W*

     * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optiocal Pick-up Block (including APC borad).

## BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

**ADVARSEL!!**

**Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.**

1. Laser-didoe data
   - Materiale: GaAlAs
   - Bølgelængde: 780 nm
   - Udstråling: Kontinuerlig
   - Laseroutput: Max. 0,4 mW*

     * Målt i 1,6 mm afstand fra overfladen af objektivlinsen på den optiske pick-up enhed.

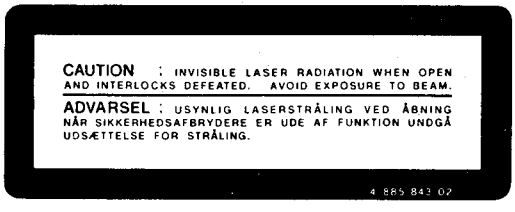
   - Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laserdioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

## LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning

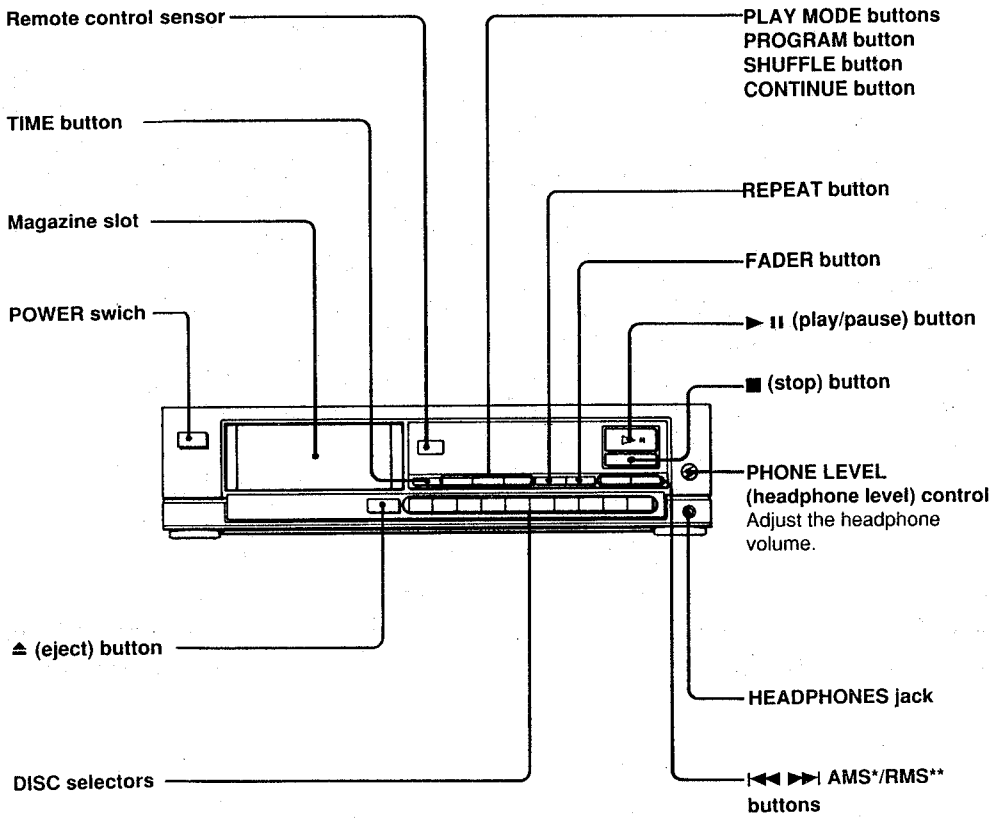

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING.
4 885 843 02

**VAROITUS:** Laite sisältää, laserdiodin, joka lähettää (näkymätöntä) silmille vaarallista lasersateilyä.

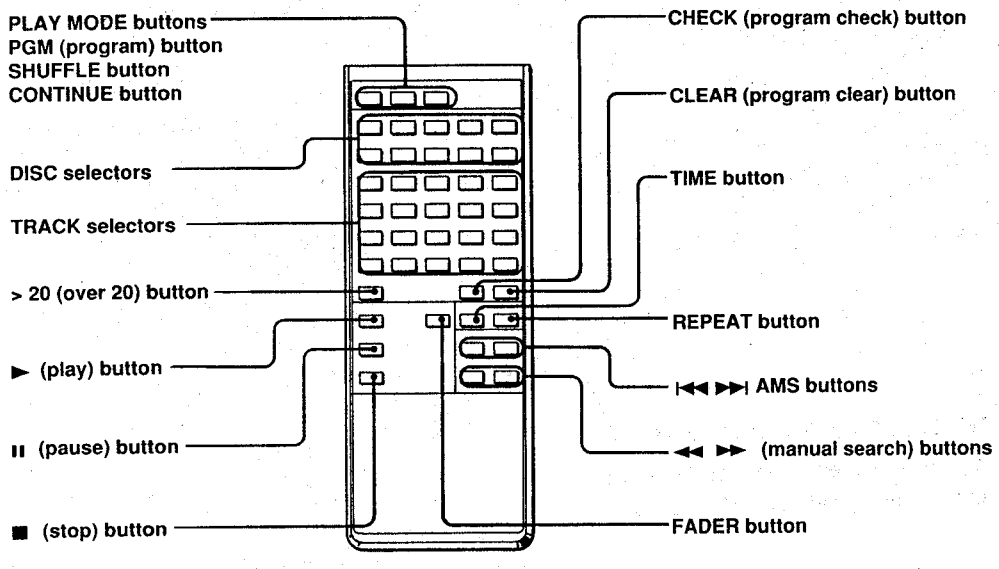
# SECTION 1
# GENERAL

## 1-1. LOCATION AND FUNCTION OF CONTROLS

### Front Panel

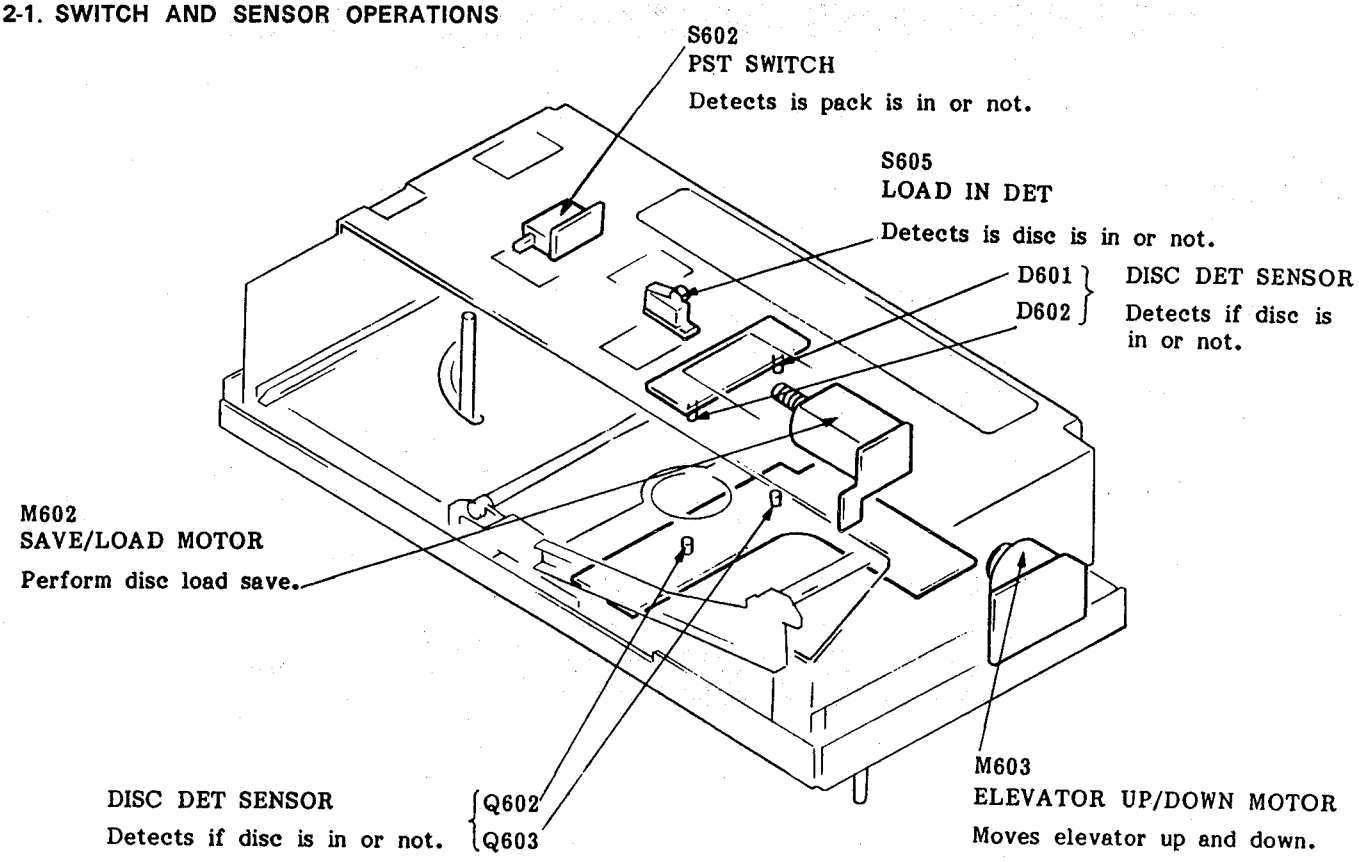


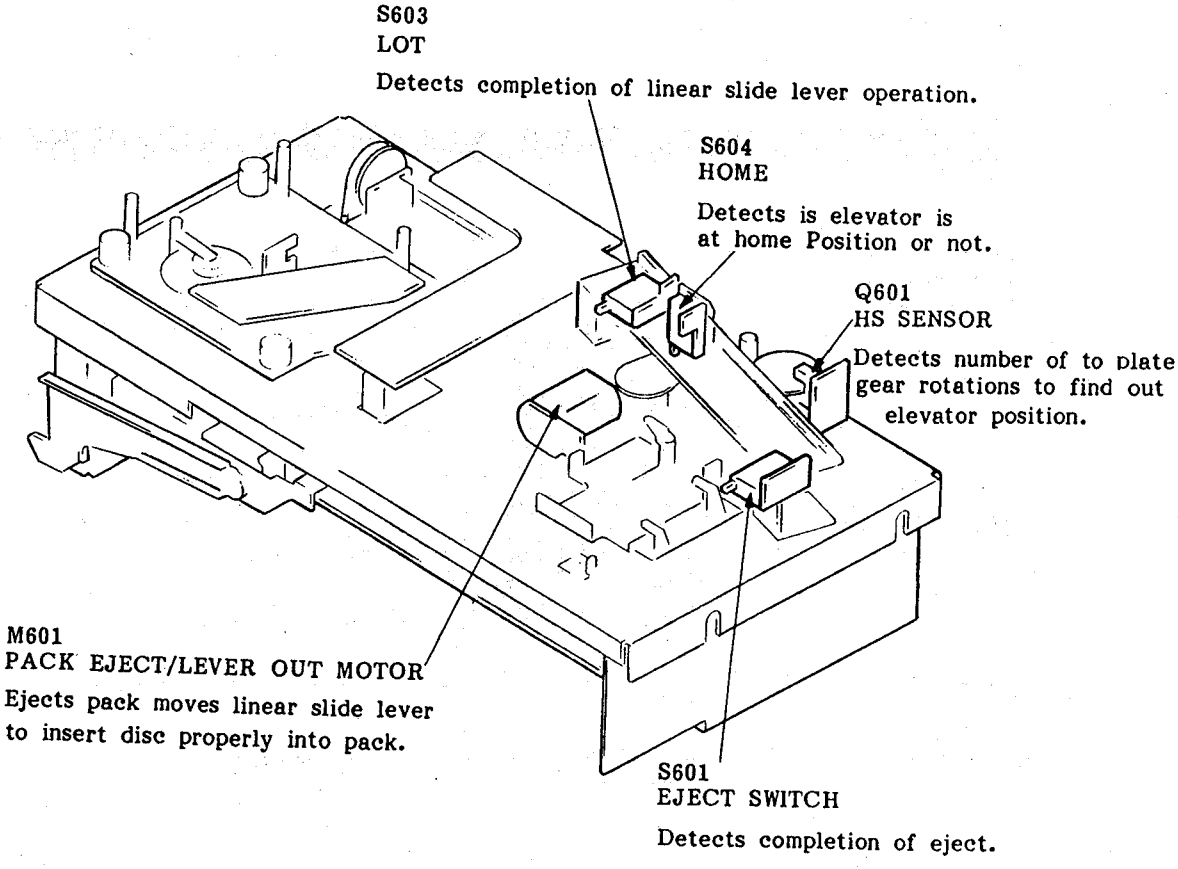

### Remote Commander



# SECTION 2
# OUTLINE

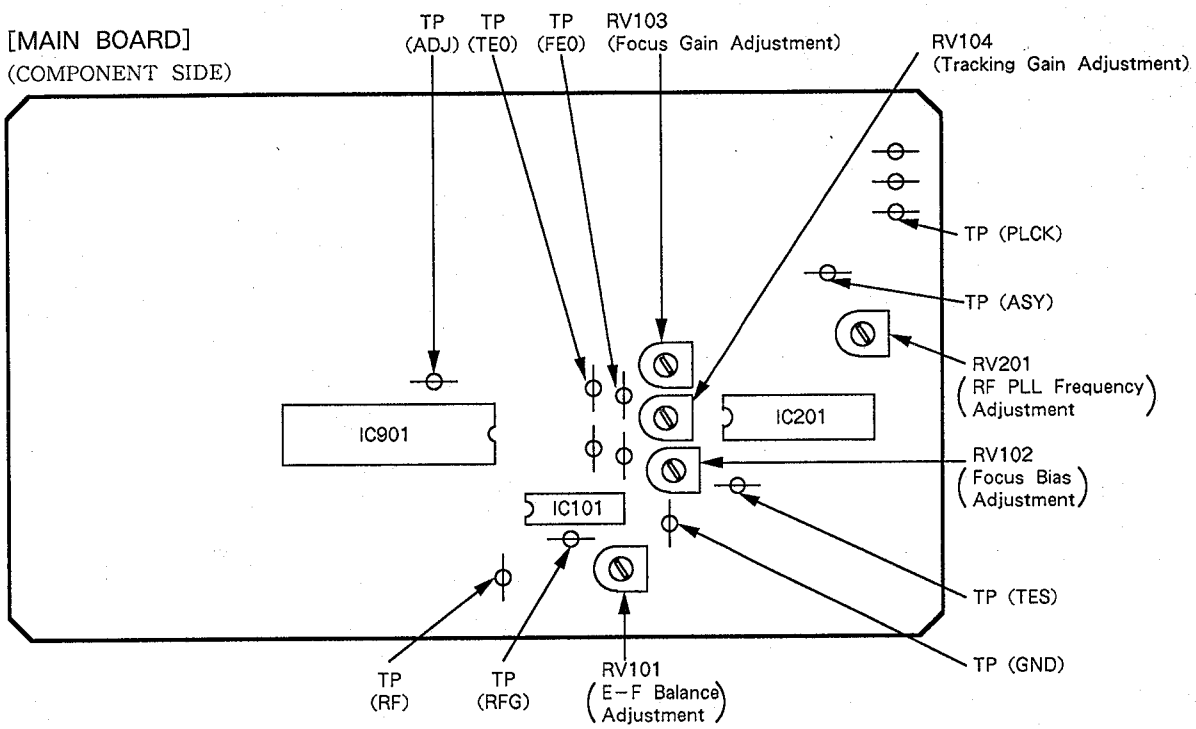
## 2-1. SWITCH AND SENSOR OPERATIONS



# SECTION 3
# ELECTRICAL ADJUSTMENTS

**• Parts location diagram relevant to the adjustment.**

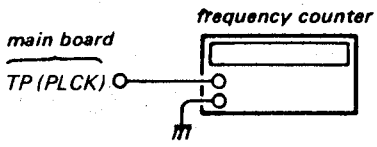



**• Note on Adjustment**

1. Perform adjustments in the order given.
2. Use YEDS-18 (Part No.: 3-702-101-01) disc unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.

## 3-1. RF PLL Frequency Adjustment/ Lock Frequency Check

**Procedure:**

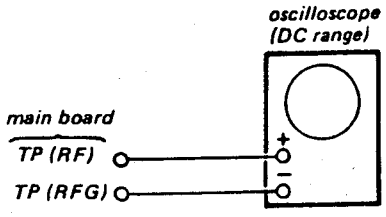



1. Connect test point TP (ASY) to ground with lead wire.
2. Turn POWER switch on.
3. Connect the frequency counter to test point TP (PLCK).
4. Adjust RV201 so that the reading on the frequency counter is 4.3218MHz ± 30kHz ... (RF PLL Frequency Adjustment).
5. Remove lead wire connecting TP (ASY) to ground.
6. Put disc (YEDS-18) in and press D button.
7. Confirm that the reading on the frequency counter is 4.3218MHz.

## 3-2. Focus Bias Adjustment

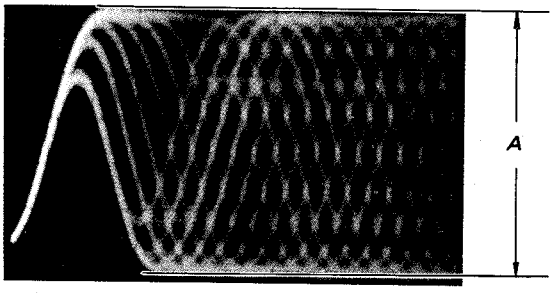
Note: This adjustment should be mode when replacing Optical Pick-up Block.

**Procedure:**




1. Connect oscilloscope to test point TP (RF) and test point TP (RFG).
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press ▷ button.
4. Adjust RV102 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape " ◇ " can be clearly distinguished at the center of the waveform.

*RF signal waveform*

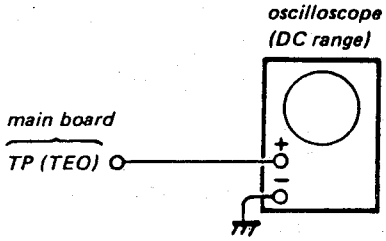



*A = 1.3V ± 0.3 (Vp-p)*

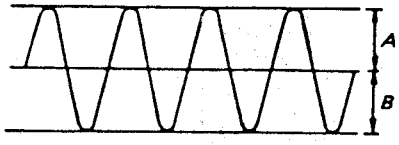
### 3-3. E-F Balance Adjustment

Note: This adjustment should be made when replacing Optical Pick-up Block.

**Procedure:**




1. Connect test point TP (ADJ) and test point TP (TES) to ground with lead wire.
2. Connect oscilloscope to test point TP (TE0).
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and press ▷ button.
5. Adjust RV101 so that the traverse waveform is symmetrical above and below.
6. After adjustment remove the lead wire connected in step 5.




*A = B (within 5%)*
*VOLT/DIV: 1 V*
*TIME/DIV: 1 ms*

### 3-4. REFERENCE
### Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

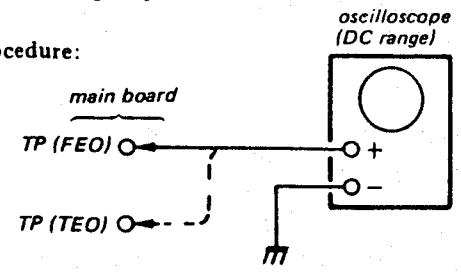
| Symptoms \ Gain | Focus | Tracking |
|---|---|---|
| • The time until music starts becomes longer for STOP →▷PLAY or automatic selection (⏮, ⏭ buttons pressed. (Normally takes about 2 seconds.) | low | low or high |
| • Music does not start and disc continues to rotate for STOP→▷PLAY or automatic selection (⏮, ⏭ buttons pressed.) | – | low |
| • Disc table opens shortly after STOP→▷PLAY. | low or high | – |
| • Sound is interrupted during PLAY. Or time counter display stops progressing. | – | low |
| •More noise during 2-axis device operation. | high | high |

The following is a simple adjustment method.

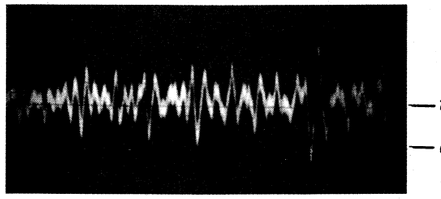
– Simple Adjustment –

**Note:** Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

**Procedure:**



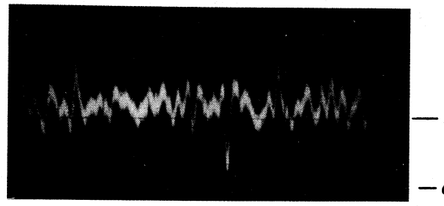

1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.)
2. Insert disc (YEDS-18: Fifth Selection) and press ▷PLAY button.
3. Connect oscilloscope to main amp board TP (FEO).
4. Adjust RV103 so that the waveform is as shown in the figure below. (focus gain adjustment)



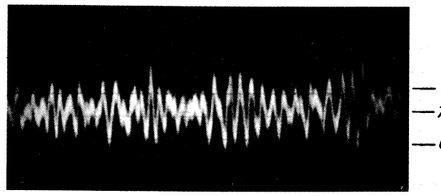

*VOLT/DIV: 100mV*
*TIME/DIV: 2mS*

- Incorrect Examples (DC level changes more than on adjusted waveform)

*low focus gain*

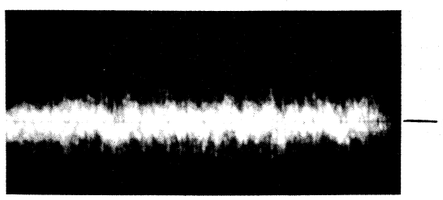



*VOLT/DIV: 100mV*
*TIME/DIV: 2mS*




*VOLT/DIV: 100mV*
*TIME/DIV: 2mS*

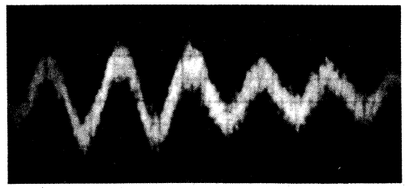
5. Connect oscilloscope to main board TP (TE0).
6. Adjust **RV104** so that the waveform is as shown in the figure below. (Tracking Gain Adjustment)




*VOLT/DIV: 1V*
*TIME/DIV: 2mS*

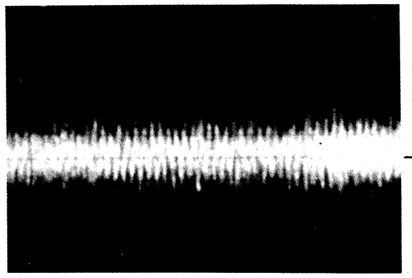
- Incorrect Examples (fundamental wave appears)

*low tracking gain*




*VOLT/DIV: 1V*
*TIME/DIV: 2mS*

*high tracking gain*
*(higher fundamental wave than for low gain)*

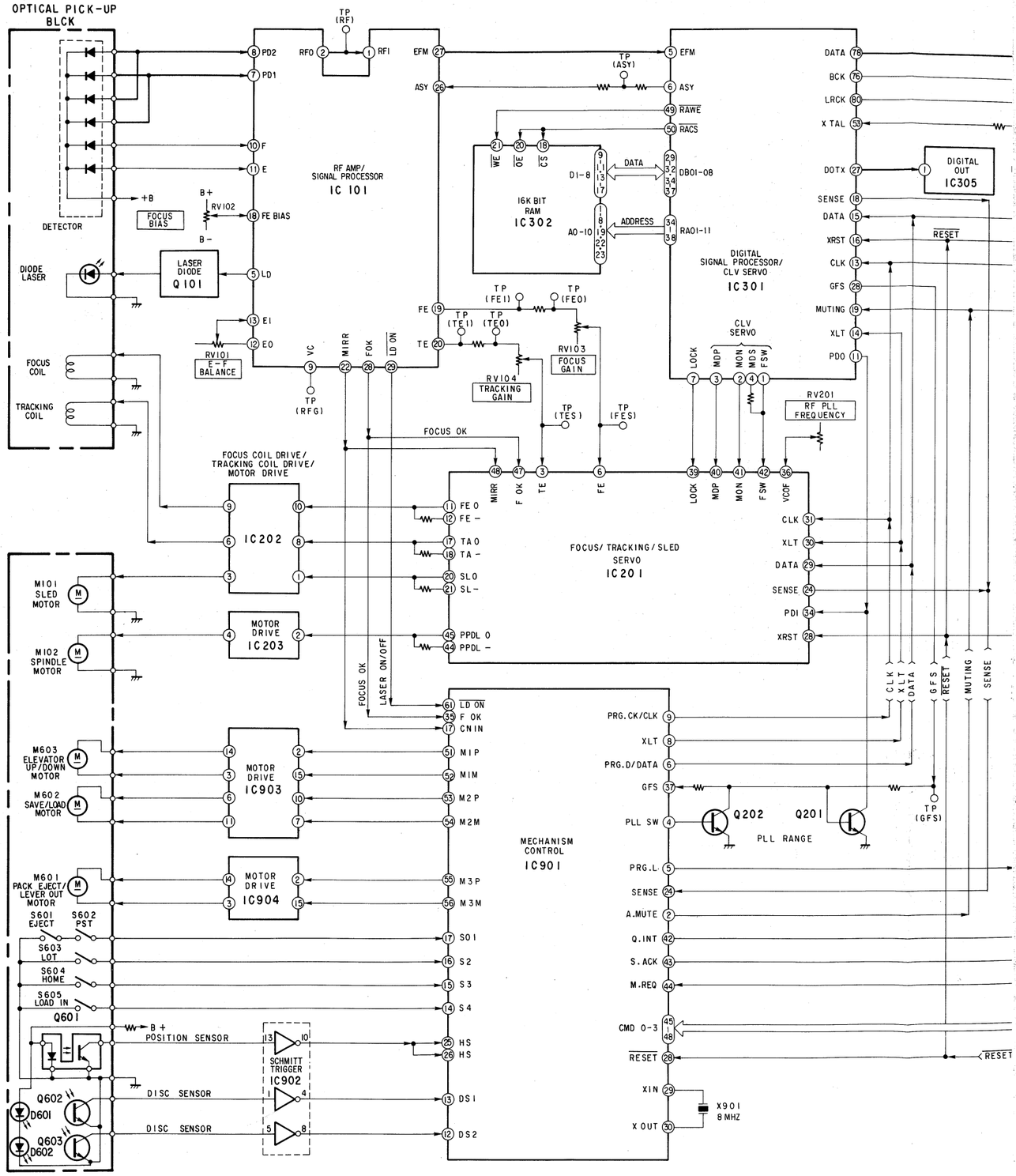


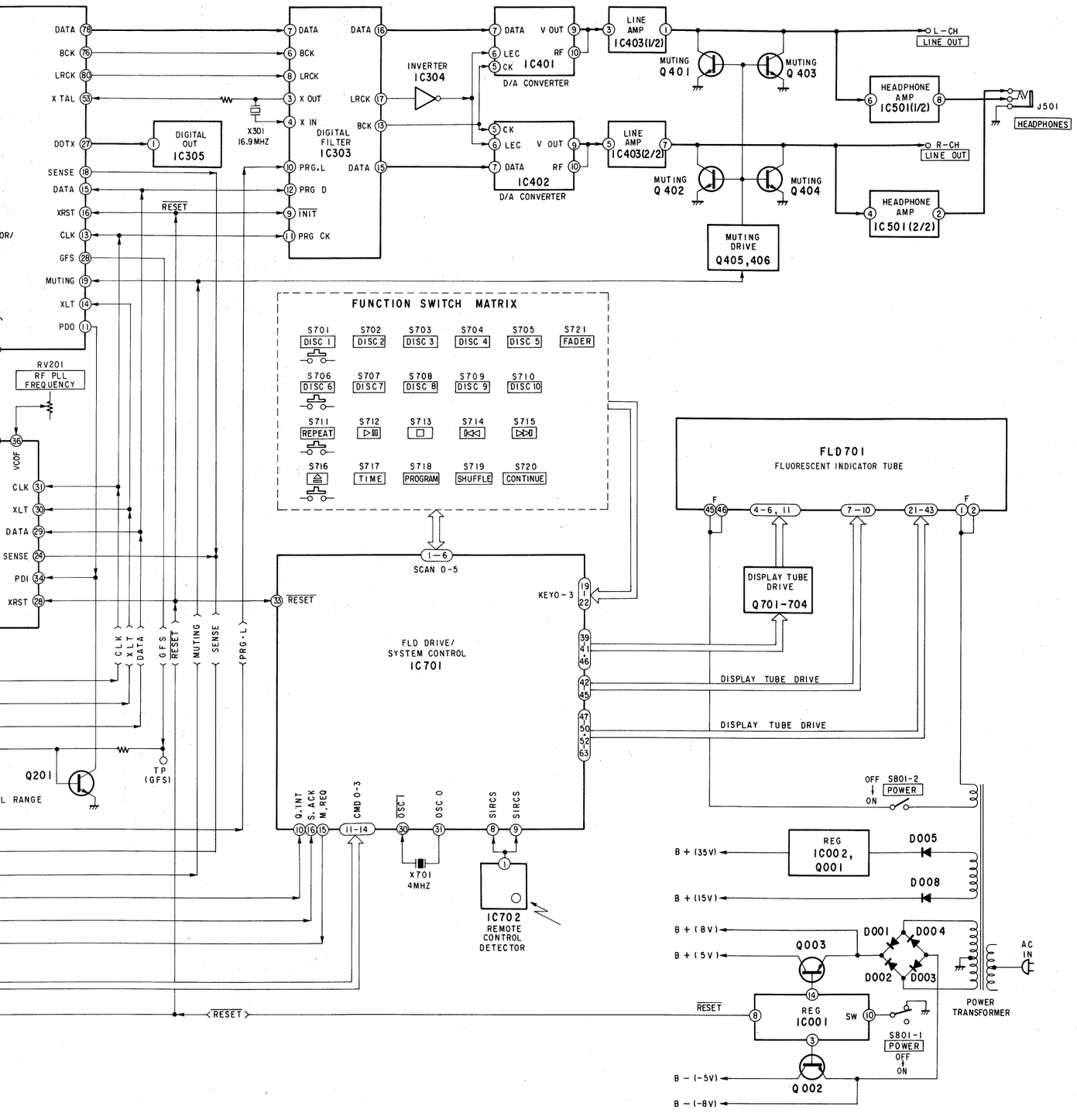

*VOLT/DIV: 1V*
*TIME/DIV: 2mS*



# SECTION 4
# DIAGRAMS

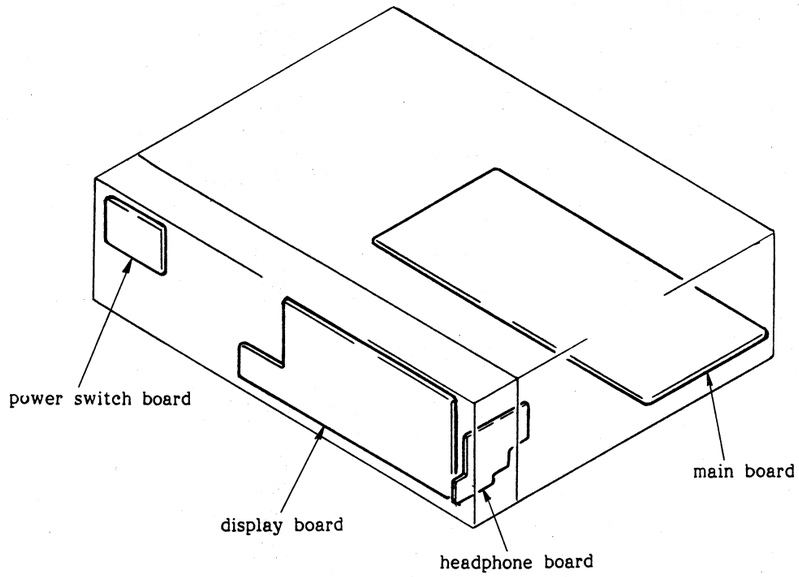
## 4-1. BLOCK DIAGRAM

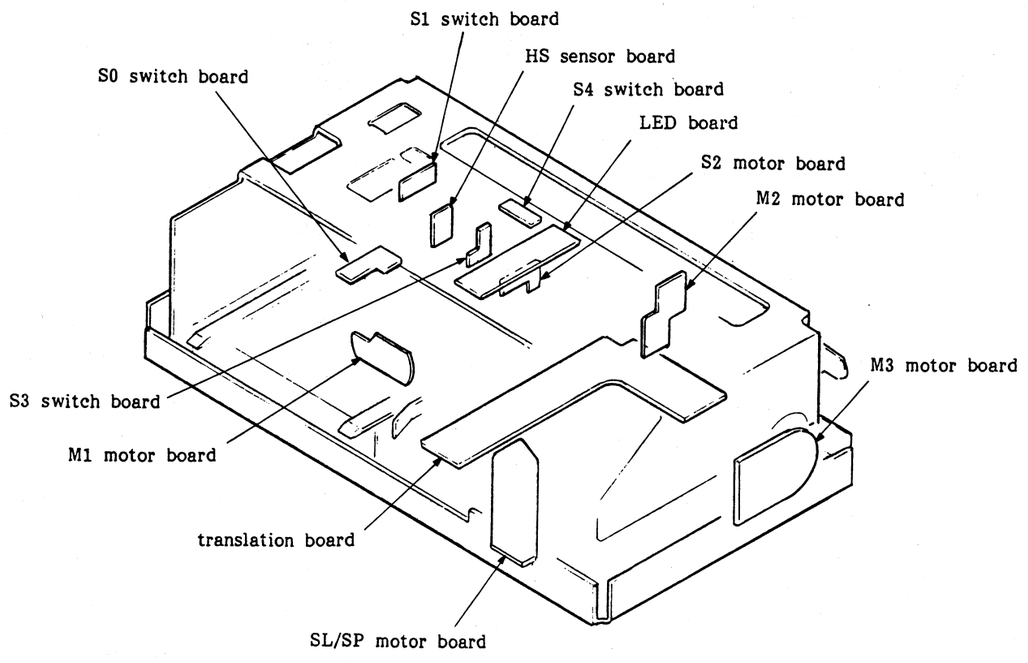






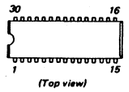

## 4-2. CIRCUIT BOARDS LOCATION



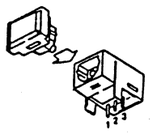



## 4-3. SEMICONDUCTOR LEAD LAYOUTS

CXA1081S

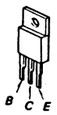



GP1F31T

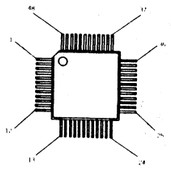



RC4556S

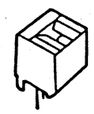
2SB1274-RS




CXA1182S

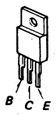


GP1U52

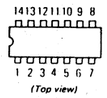


RC4558P

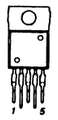
2SD1913SA-Q




TC74HCU04P

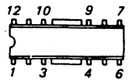



LA6500-FA

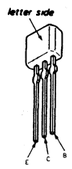



2SK381-C

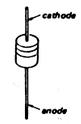
CXA1291P
LB1649



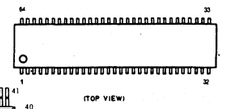

BA1L3Z-P



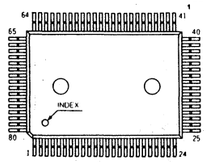

HZS9B2L
RD5.1ES-B2
1SS202-1



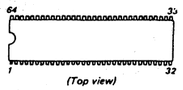

MSC6458-41SS



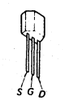

CXD1125Q



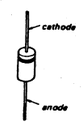

M50747-B57SP



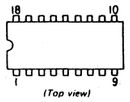

DTA114ES
DTC114ES
DTC144ES




10E2N



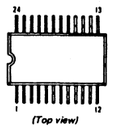

CXD2550P



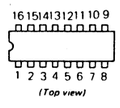

M5231TL

2SB1013

CXK5816M-12L




M5290P-16
PCM56P-S



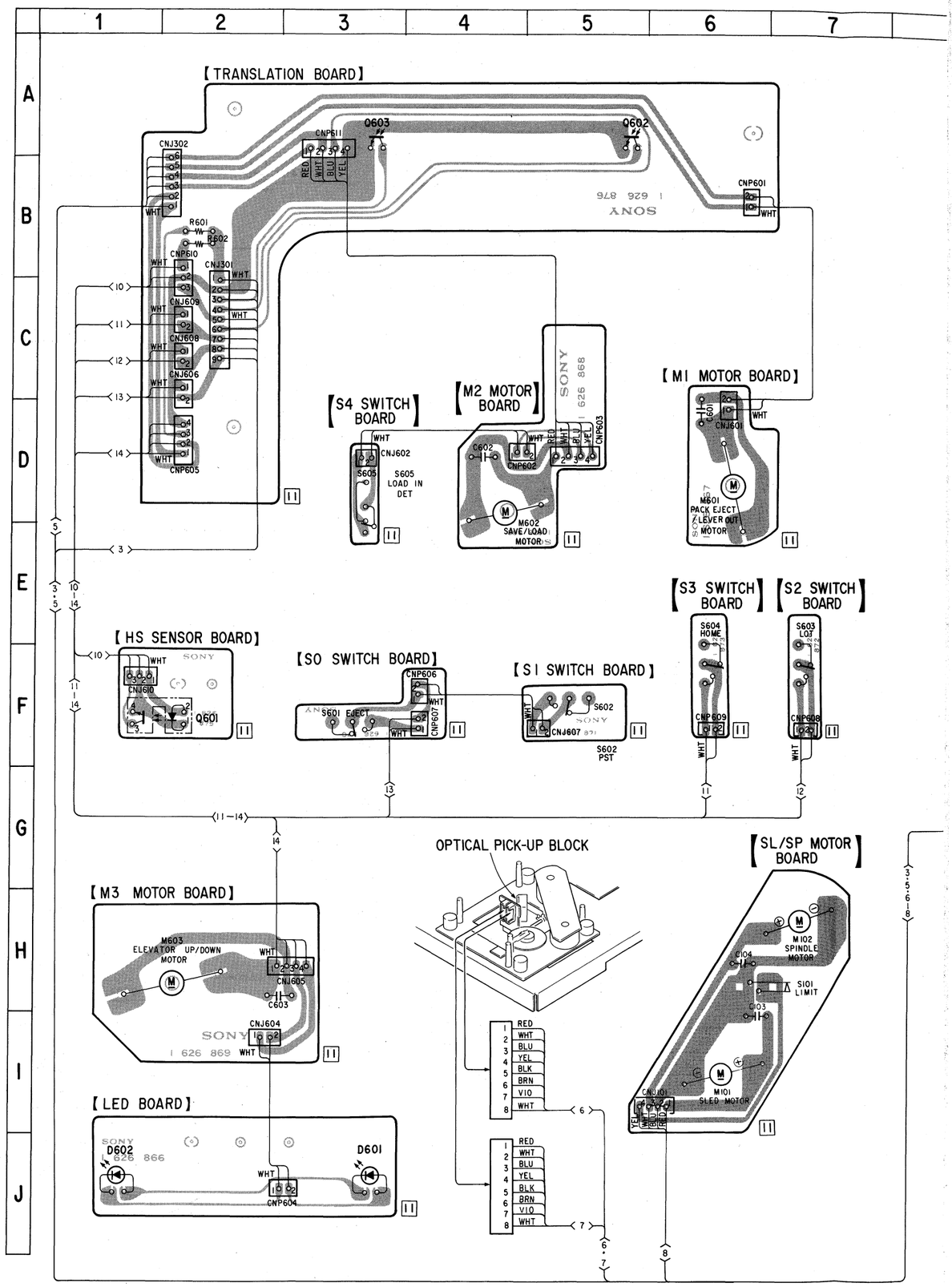

## • SEMICONDUCTOR LOCATION

| Ref. No. | Location |
|---|---|
| IC001 | F-16 |
| IC002 | E-16 |
| IC101 | E-12 |
| IC201 | E-9 |
| IC202 | F-9 |
| IC203 | F-8 |
| IC301 | B-10 |
| IC302 | B-10 |
| IC303 | A-12 |
| IC304 | B-12 |
| IC305 | A-11 |
| IC401 | B-13 |
| IC402 | A-13 |
| IC403 | B-14 |
| IC501 | F-19 |
| IC701 | J-13 |
| IC702 | J-10 |
| IC901 | E-13 |
| IC902 | F-14 |
| IC903 | F-12 |
| IC904 | F-13 |
| Q001 | D-16 |
| Q002 | F-16 |
| Q003 | E-17 |
| Q101 | F-11 |
| Q201 | C-8 |
| Q202 | C-8 |
| Q401 | B-15 |
| Q402 | B-15 |
| Q403 | C-15 |
| Q404 | B-15 |
| Q405 | C-14 |
| Q406 | C-14 |
| Q601 | F-2 |
| Q602 | A-5 |
| Q603 | A-3 |
| Q701 | I-12 |
| Q702 | I-11 |
| Q703 | I-11 |
| Q704 | I-11 |
| D001 | D-17 |
| D002 | D-17 |
| D003 | D-17 |
| D004 | D-18 |
| D005 | D-17 |
| D006 | D-15 |
| D007 | E-16 |
| D008 | D-17 |
| D401 | C-14 |
| D601 | J-3 |
| D602 | J-1 |
| D901 | F-12 |
| D902 | F-13 |
| D903 | F-13 |

Note :

- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▒ : Pattern on the side which is seen.

## 4-4. PRINTED WIRING BOARDS • See page 12 for circuit boards location.



| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

【MAIN BOARD】

EXCEPT E MODEL

E MODEL

【SL/SP MOTOR BOARD】

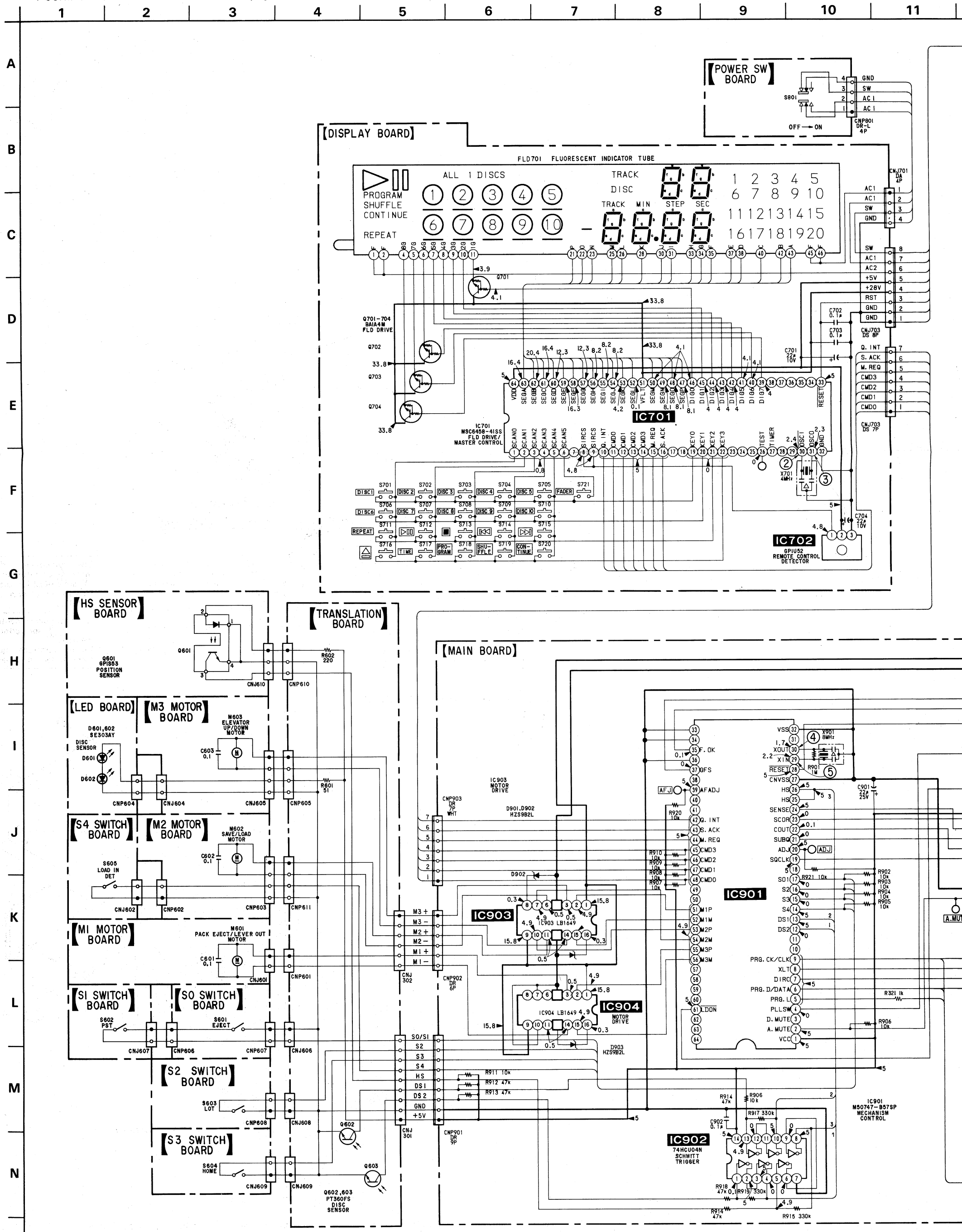
【S2 SWITCH BOARD】

【HEADPHONE BOARD】

【DISPLAY BOARD】

【POWER SWITCH BOARD】

FLD701

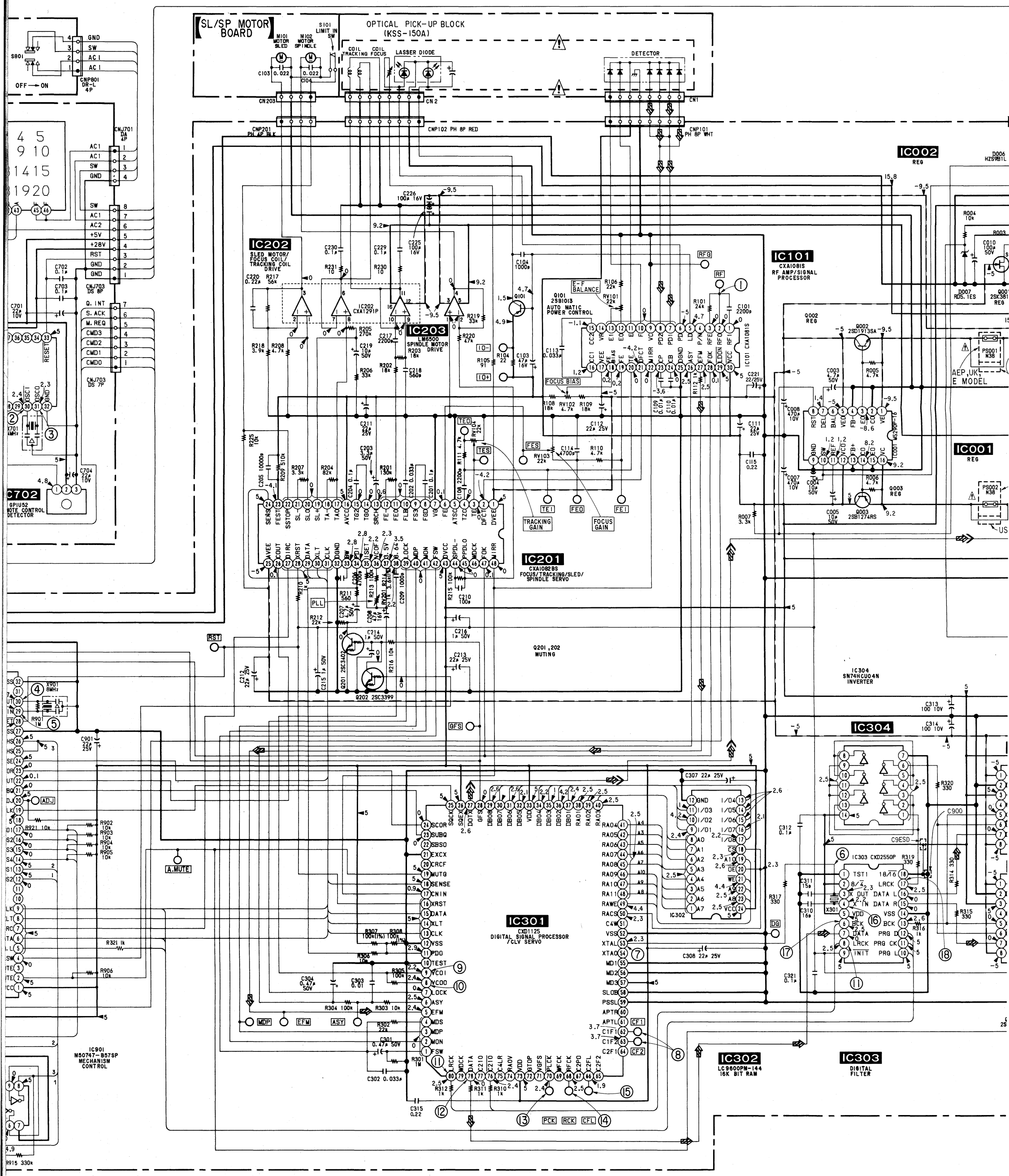



Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.

| Note: | Note: |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

- ▬▬ : B+ Line
- ▬ ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : Stop mode
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are
  Voltage variation
  tion tolerances.
- Circled numbers
- Signal path.
  ⇨ : CD
  ⇨⇨ : digital ou




- Waveforms are taken with a oscilloscope..
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

⇨ : CD

⇨ : digital out

with respect to ground

(Input impedance 10M Ω).

due to normal produc-

CNP001 DR 8P

EXCEPT E MODEL

E MODEL

IC002 REG

D006 HZS9B1L

T901 POWER TRANSFORMER

AC IN

S001 VOLTAGE SELECTOR

220-240V

110-120V

※ NOT REPLACEABLE BULT IN TRANSFORMER

IC001 REG

T901 POWER TRASFORMER

※ NOT REPLACEABLE BULT IN TRANSFORMER

AEP, UK, E MODEL

US, Canadian MODEL

L301

DIGITAL OUT (OPTICAL)

IC305 GP1F31T (DIGITAL OUTPUT)

【HEADPHONE BOARD】

IC501 RC4556S HEADPHONE AMP

RV501 PHONE LEVEL

J501 HEADPHONES

CNP401 DR 6P

IC401,402 PCM56P-S : C900 AD1860N-K : C9ESD D/A CONVERTER

IC304 SN74HCU04N INVERTER

Q401-404 BAIL3Z MUTING

IC304

IC401

IC402

IC403

IC303 CXD2550P

C9ESD

C900

IC403-1

IC403-2

IC403 RC4558P LINE AMP

D401 1SS132T

Q405 2SA1345 MUTING SWITCH

Q406 2SC3399

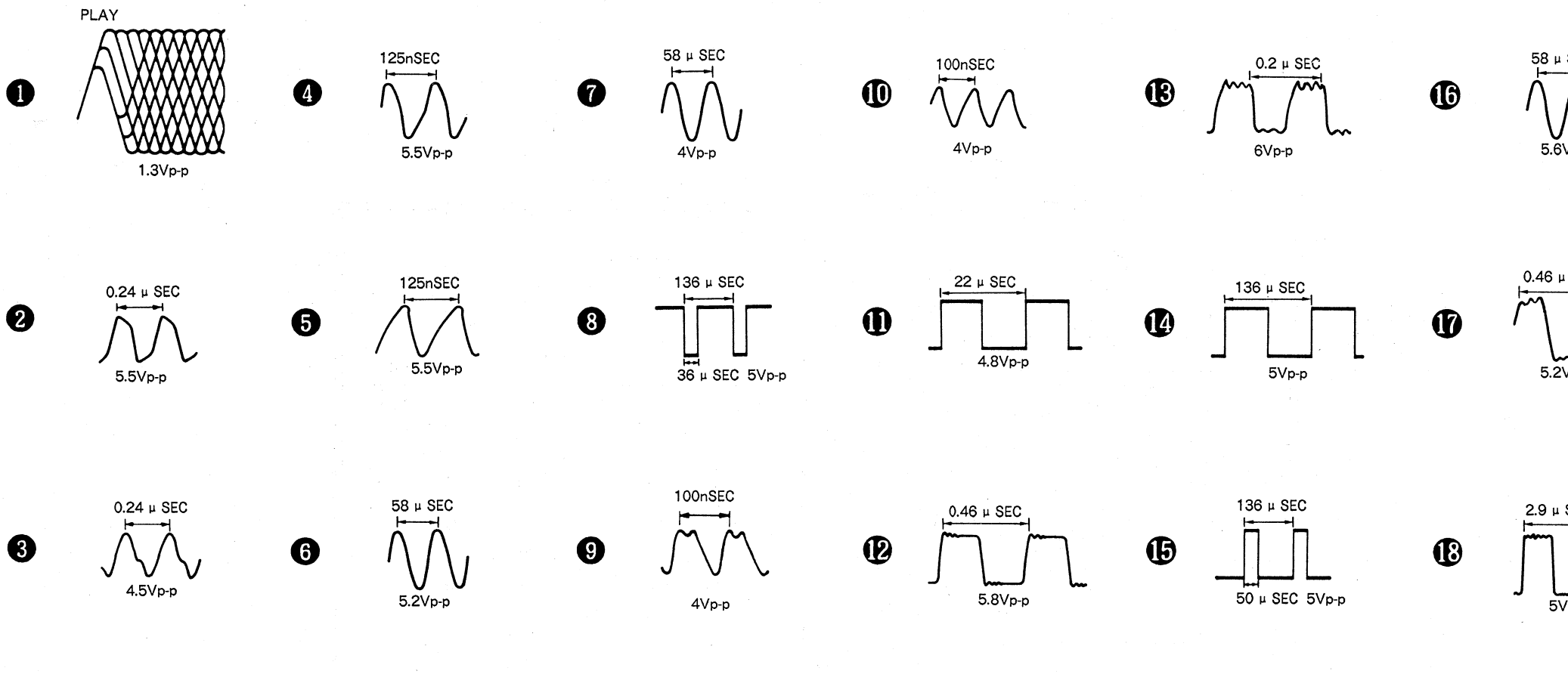
MUTE

Q406 MUTING SWITCH

IC303 DIGITAL FILTER

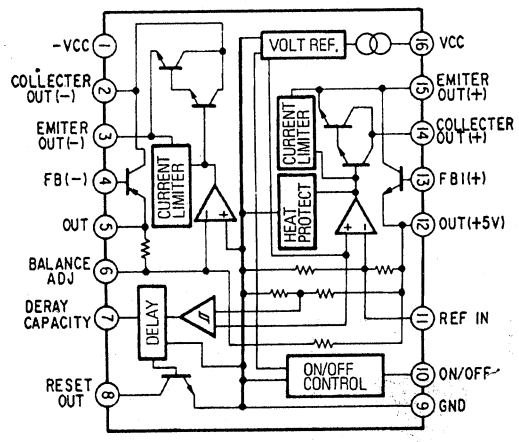
J401 LINE OUT

## 4-6. SCHEMATIC OF WAVEFORMS

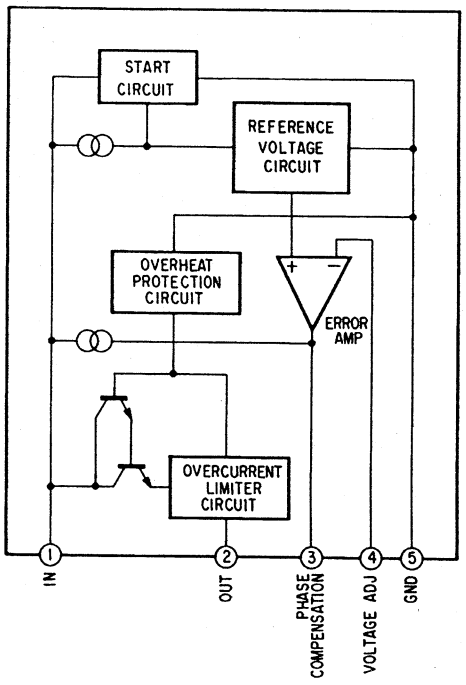



## 4-7. IC BLOCK DIAGRAM

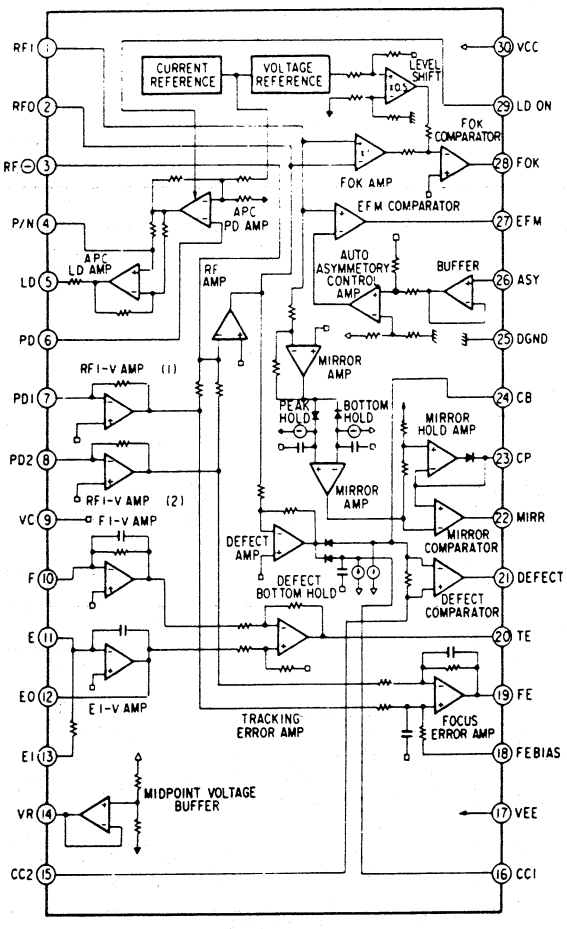
### IC001 M5290P-16



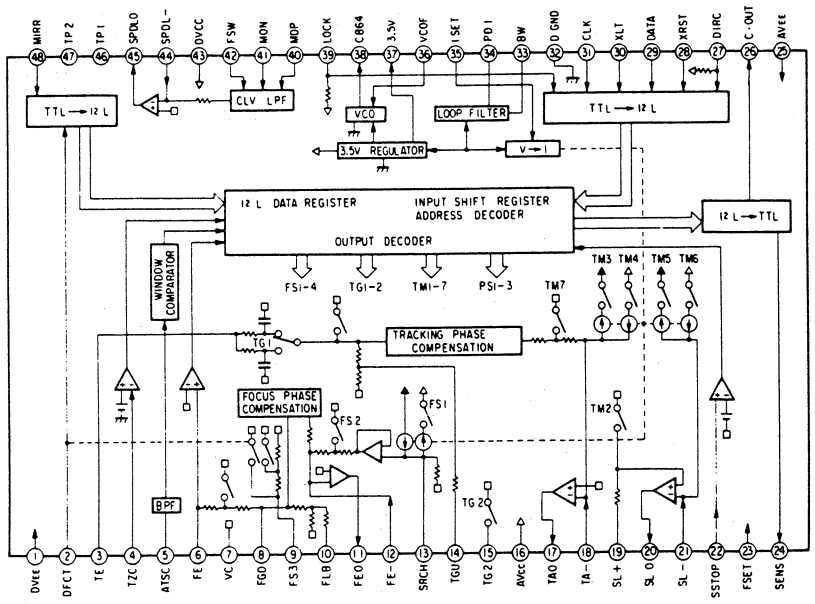

### IC002 M5231TL




### IC101 CXA1081S



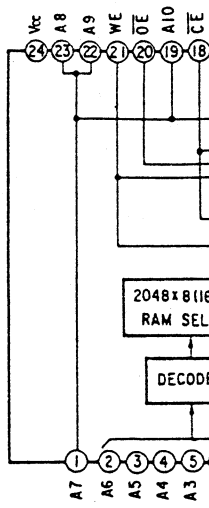

### IC201 CXA1182S

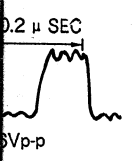



### IC301 CXD1125Q

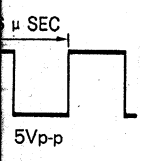



### IC302 CXK581






⑯

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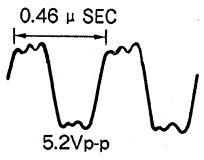
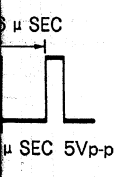
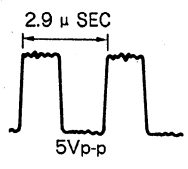
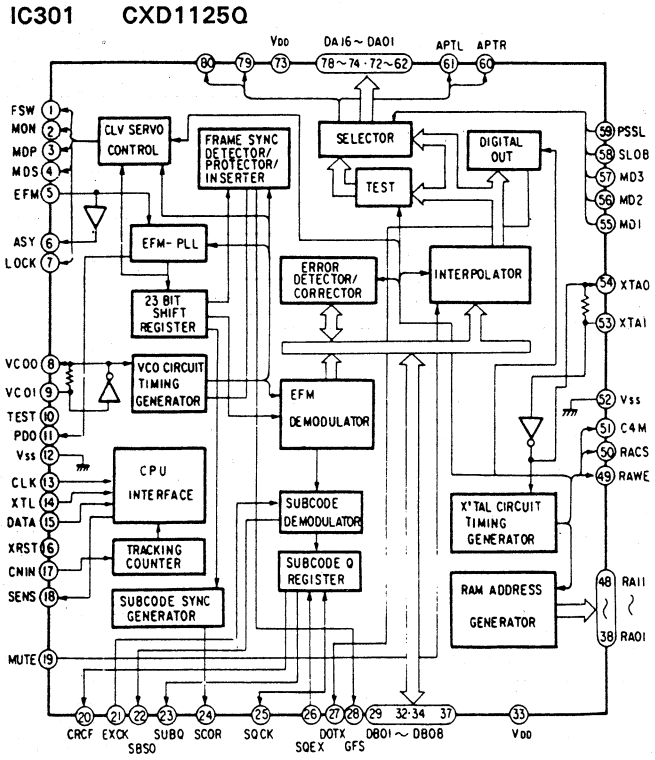


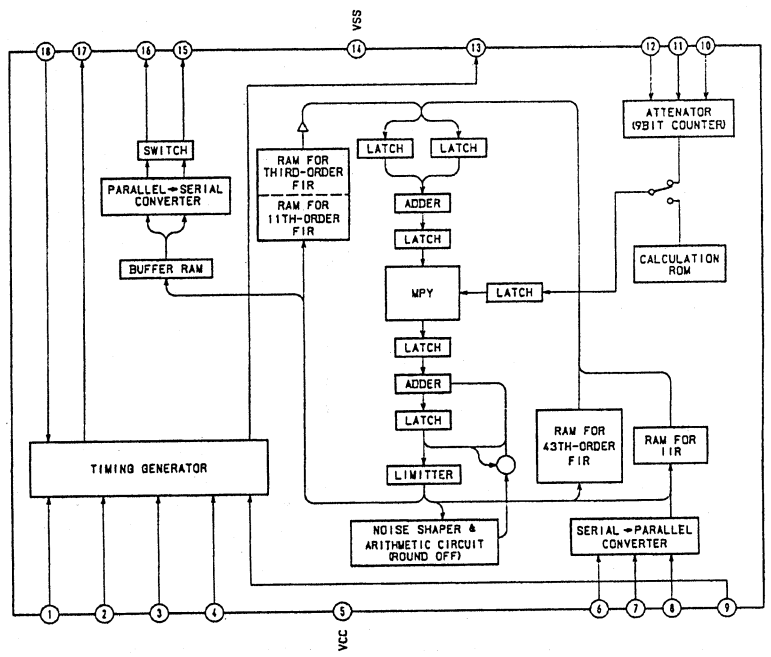

⑱



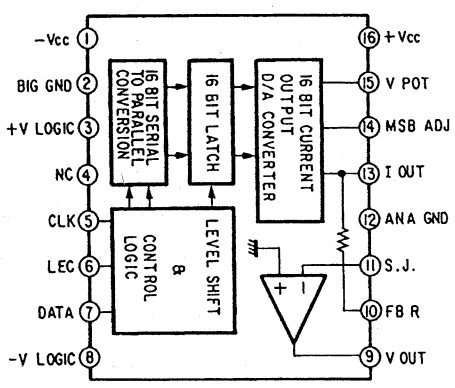

**IC301 CXD1125Q**



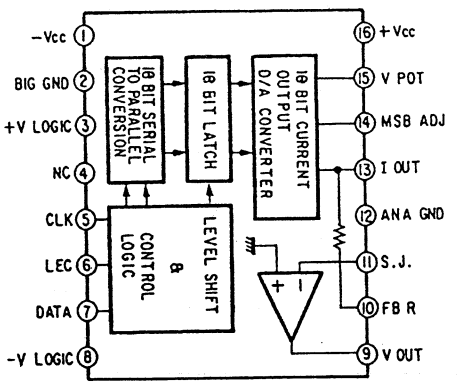

**IC303 CXD2550P**



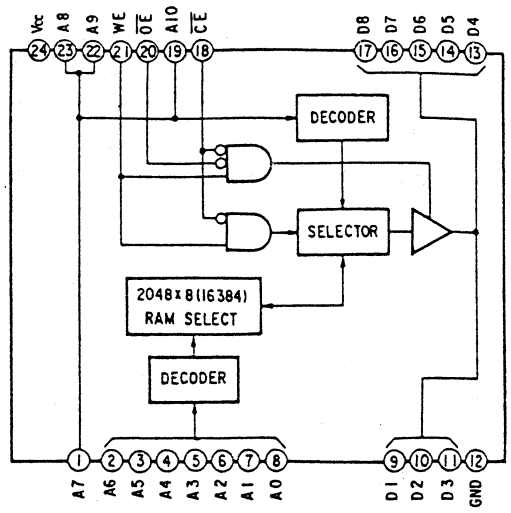

**IC401, 402**
**PCM56P-S : C900**



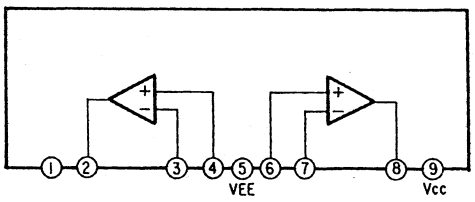

**IC401, 402**
**AD1860N-K : C9ESD**



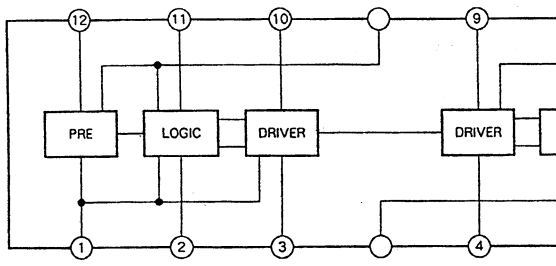

**IC302 CXK5816M-12L**

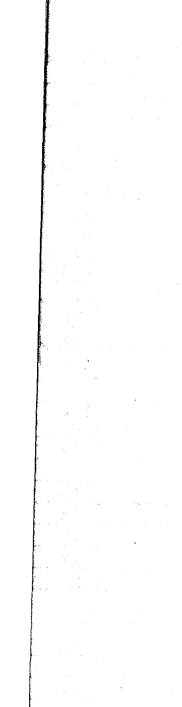



**IC501 RC4556S**

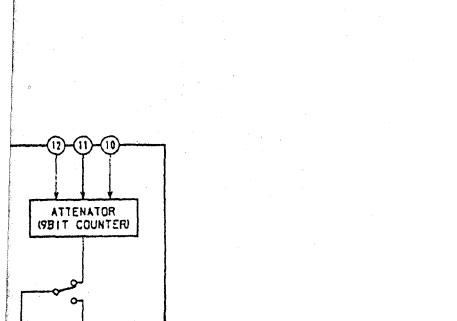



**IC903, 904 LB1649**

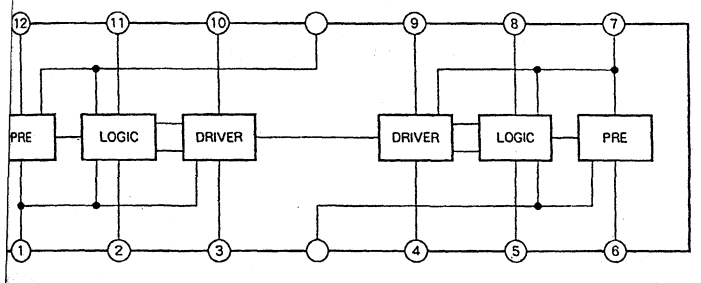





**IC401, 402**
**AD1860N-K : C9ESD**




**904 LB1649**






# SECTION 5
# EXPLODED VIEWS

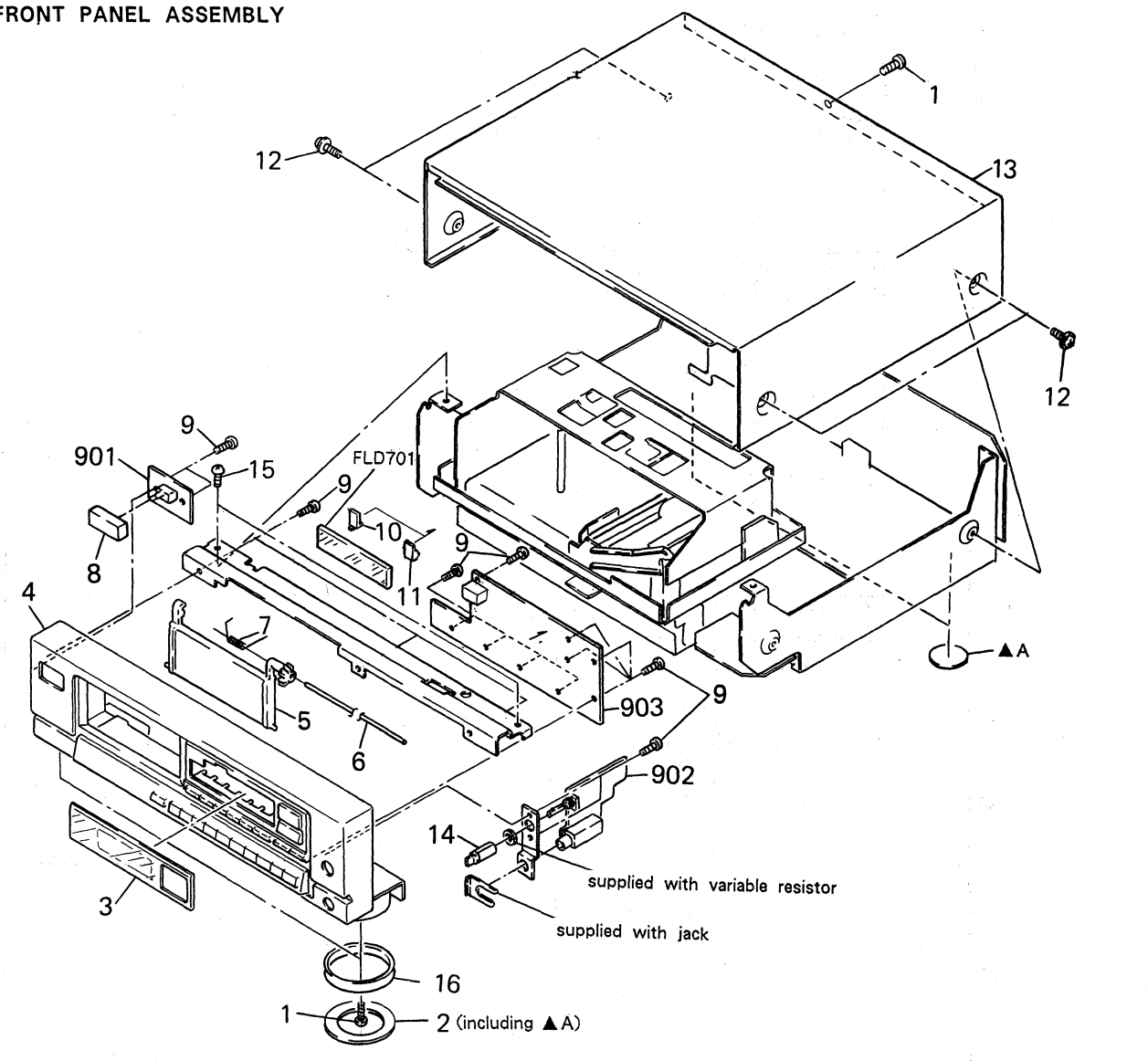
**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

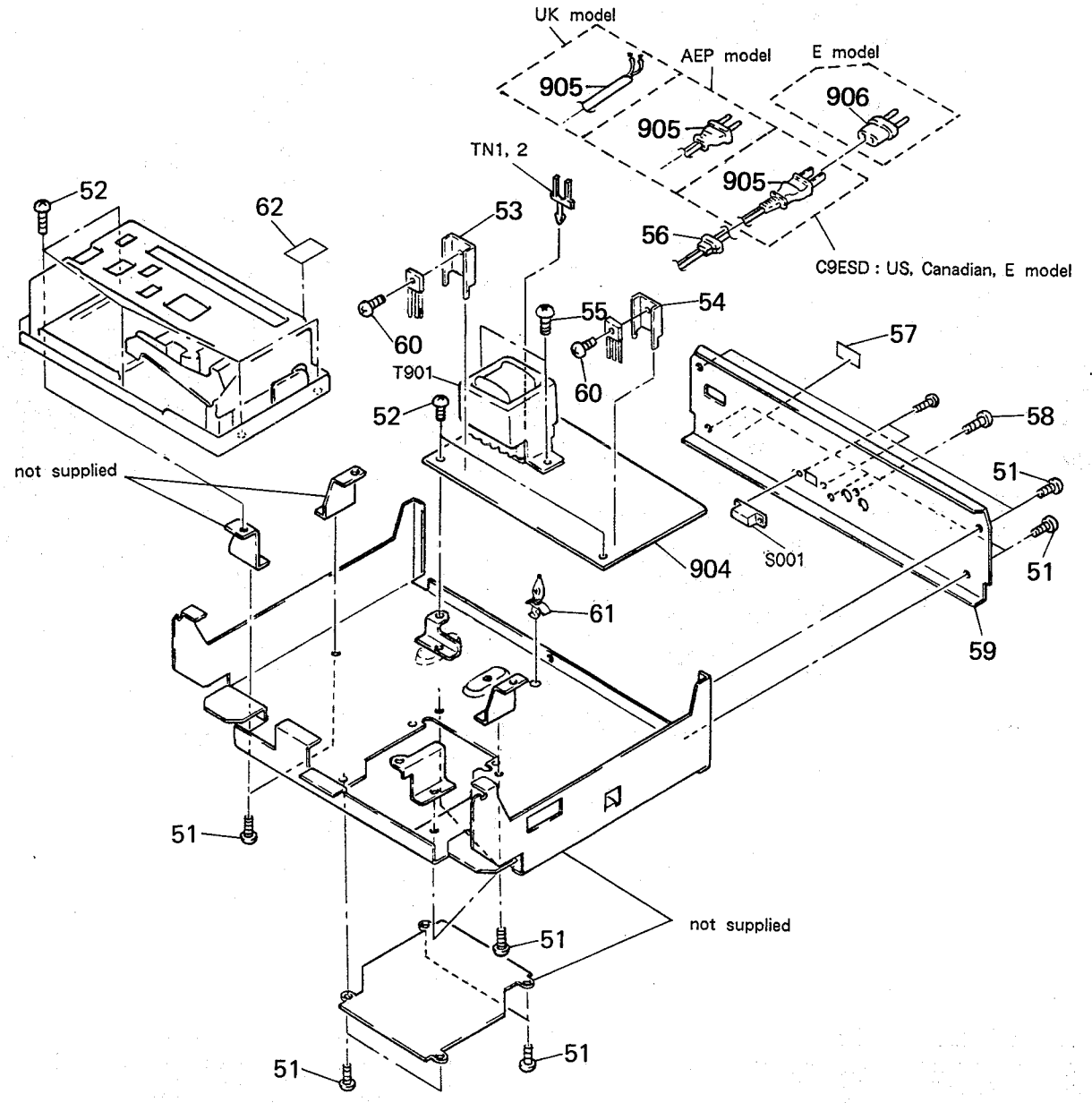
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

## 5-1. FRONT PANEL ASSEMBLY




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 1 | 7-685-872-09 | SCREW +BVTT 3X8 (S) | |
| 2 | 4-926-391-01 | FOOT (FELT) | |
| 3 | 4-930-542-01 | PLATE, INDICATION | |
| 4 | X-4924-439-1 | (C900:US,Canadian)...PANEL ASSY, FRONT | |
| | X-4924-440-1 | (AEP,UK,E).....PANEL ASSY, FRONT | |
| | X-4924-442-1 | (C9ESD).....PANEL ASSY, FRONT | |
| 5 | 4-924-492-21 | LID | |
| 6 | 4-926-303-01 | SHAFT (LID) | |
| 7 | 4-924-499-01 | SPRING | |
| 8 | 4-922-921-01 | BUTTON (POWER) | |
| 9 | 4-928-635-01 | SCREW, +BV (2.6X8) TAPPING | |
| 10 | *4-928-053-01 | HOLDER (LEFT) | |
| 11 | *4-928-052-01 | HOLDER (RIGHT) | |
| 12 | 3-704-366-01 | SCREW (CASE) (M3X8) | |
| 13 | 4-926-301-21 | CASE | |
| 14 | 4-923-522-01 | KNOB (B.TYPE), LOV | |
| 15 | 7-682-547-04 | SCREW +BVTT 3X6 (S) | |
| 16 | 4-926-398-01 | (C900:EXCEPT FOR US)...PLATE, ORNAMENTAL | |
| 901 | *1-631-293-11 | PC BOARD, POWER SW | |
| 902 | *1-631-294-11 | PC BOARD, HEADPHONE | |
| 903 | *1-631-292-11 | PC BOARD, DISPLAY | |
| FLD701 | 1-519-515-11 | INDICATOR TUBE, FLUORESCENT | |

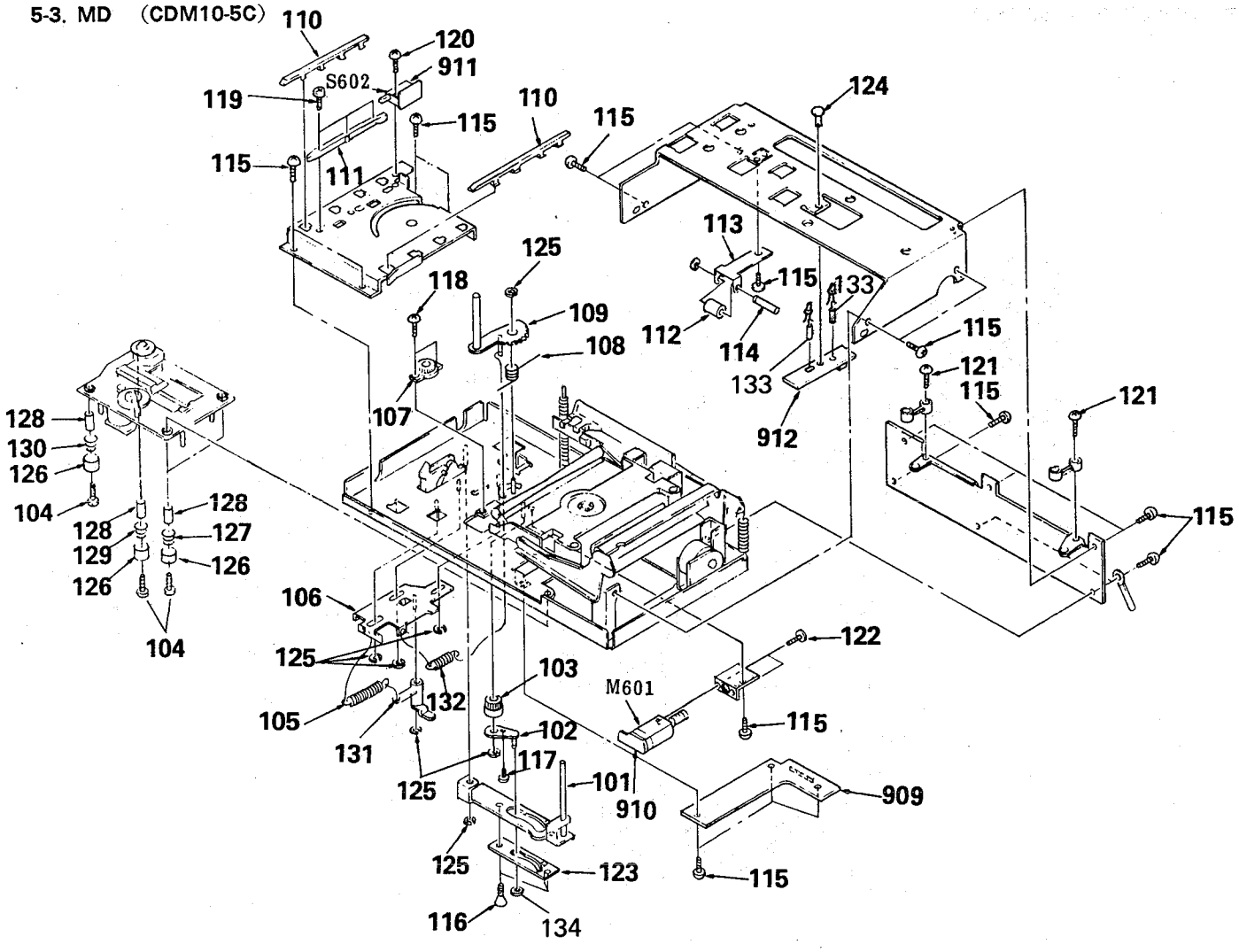
## 5-2. CHASSIS ASSEMBLY




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 51 | 7-682-547-09 | SCREW +BVTT 3X6 (S) | |
| 52 | 7-682-547-04 | SCREW +BVTT 3X6 (S) | |
| 53 | 4-902-345-01 | HEAT SINK | |
| 54 | *4-922-525-01 | HEAT SINK | |
| 55 | 7-682-560-04 | SCREW +BVTT 4X6 (S) | |
| 56 | *3-703-244-00 | (US,Canadian,AEP,UK)...BUSHING (2104), CORD | |
| | *3-703-571-11 | (E).....BUSHING (S)(4516), CORD | |
| 57 | *4-885-838-00 | (AEP,UK,E)...LABEL, CLASS 1 | |
| 58 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| 59 | *4-930-524-01 | (C900:US)....PANEL, BACK | |
| | *4-930-524-21 | (Canadian)...PANEL, BACK | |
| | *4-930-524-31 | (AEP).....PANEL, BACK | |
| | *4-930-524-41 | (UK).....PANEL, BACK | |
| | *4-930-524-51 | (E).....PANEL, BACK | |
| | *4-930-524-61 | (C9ESD).....PANEL, BACK | |
| 60 | 7-682-147-15 | SCREW, TR | |
| 61 | *3-703-353-02 | SUPPORT, PC BOARD | |
| 62 | *4-911-357-01 | INSULATOR | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 904 | *A-4617-063-A | (C900:US,Canadian)...MOUNTED PCB, MAIN | |
| | *A-4617-064-A | (AEP,UK).....MOUNTED PCB, MAIN | |
| | *A-4617-065-A | (E).....MOUNTED PCB, MAIN | |
| | *A-4617-153-A | (C9ESD).....MOUNTED PCB, MAIN | |
| 905 | ⚠1-551-188-XX | (E).....CORD, POWER | |
| | ⚠1-551-478-00 | (US,Canadian)...CORD, POWER | |
| | ⚠1-555-795-00 | (AEP).....CORD, POWER, EULO PLUG | |
| | ⚠1-556-035-00 | (UK).....CORD, POWER | |
| 906 | ⚠1-526-565-12 | (E)...AC PLUG ADAPTOR | |
| S001 | ⚠1-571-722-11 | (E)...SWITCH, VOLTAGE SELECTOR | |
| T901 | ⚠1-449-749-11 | (US,Canadian)...TRANSFORMER, POWER | |
| T901 | ⚠1-449-750-11 | (AEP,UK).....TRANSFORMER, POWER | |
| T901 | ⚠1-449-751-11 | (E).....TRANSFORMER, POWER | |
| TN1 | *1-535-771-11 | TERMINAL | |
| TN2 | *1-535-771-11 | TERMINAL | |

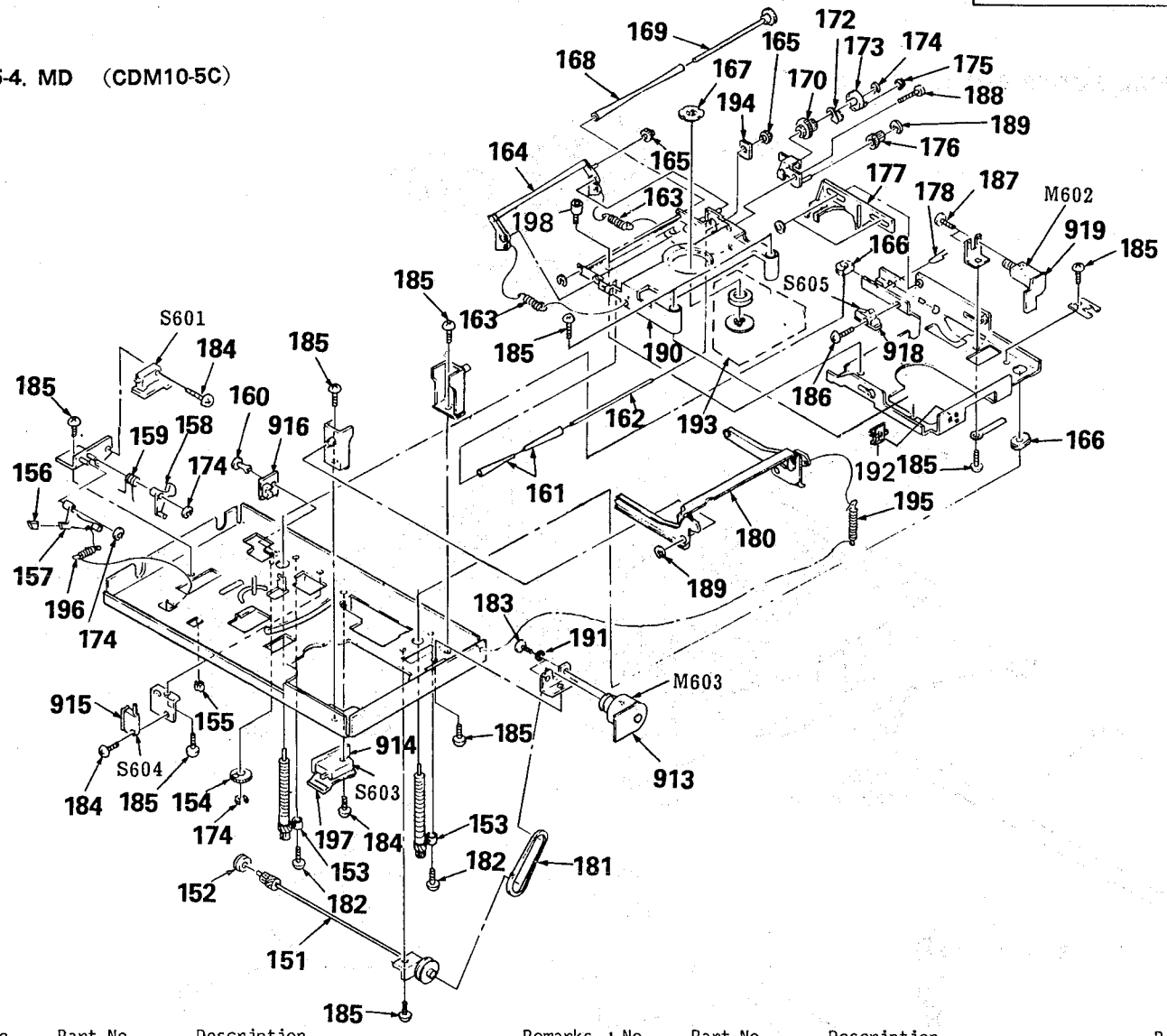
5-3. MD (CDM10-5C)




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 101 | *X-4917-728-1 | LEVER (D1) ASSY | |
| 102 | X-4917-733-1 | LEVER (G) ASSY | |
| 103 | 4-926-230-01 | GEAR (P1) | |
| 104 | 7-685-868-01 | SCREW +BVTT 2.6X20 (S) | |
| 105 | 4-926-213-01 | SPRING (1), TENSION | |
| 106 | *X-4917-735-1 | SLIDER (A) ASSY | |
| 107 | 3-319-224-31 | DAMPER, SMALL | |
| 108 | 4-926-208-01 | SPRING (EJECT) | |
| 109 | X-4917-729-1 | LEVER (E) ASSY | |
| 110 | 4-926-246-01 | RAIL | |
| 111 | *4-926-247-01 | GUIDE | |
| 112 | 4-927-248-01 | ROLLER (P) | |
| 113 | *4-920-297-01 | SPRING (M) | |
| 114 | 4-926-262-01 | SHAFT (M) | |
| 115 | 7-682-547-04 | SCREW +BVTT 3X6 (S) | |
| 116 | 7-682-245-09 | SCREW +K 3X4 | |
| 117 | 7-685-103-19 | SCREW +P 2X5 TYPE2 NON-SLIT | |
| 118 | 7-621-255-25 | SCREW +BVTT 2X4 (S) | |
| 119 | 7-685-782-09 | SCREW +PTT 2X5 (S) | |
| 120 | 7-621-773-87 | SCREW +BVTT 2.6X10 (S) | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 121 | 7-682-548-04 | SCREW +BVTT 3X8 (S) | |
| 122 | 7-621-772-00 | SCREW +B 2X3 | |
| 123 | 4-926-210-01 | LEVER (D2) | |
| 124 | 3-531-576-11 | RIVET | |
| 125 | 7-624-106-04 | STOP RING 3.0, TYPE -E | |
| 126 | 4-917-508-01 | HOLDER, SP | |
| 127 | 4-917-507-01 | SPRING (H) | |
| 128 | *4-926-249-01 | COLLAR | |
| 129 | 4-917-541-01 | SPRING (B) | |
| 130 | 4-918-669-01 | SPRING (W) | |
| 131 | 4-926-244-01 | LEVER (EJECT) | |
| 132 | 4-926-201-01 | SPRING (2), TENSION | |
| 133 | *4-923-532-01 | SPACER, LED | |
| 134 | 7-624-104-04 | STOP RING 2.0, TYPE -E | |
| 909 | *1-626-876-11 | PC BOARD, TRANSLATION | |
| 910 | *1-626-867-11 | PC BOARD, M1 MOTOR | |
| 911 | *1-626-871-11 | PC BOARD, S1 SWITCH | |
| 912 | *1-626-866-11 | PC BOARD, LED | |
| M601 | A-4608-356-A | MOTOR ASSY, M1 (PACK EJECT/LEVER OUT) | |
| S602 | 1-554-205-00 | SWITCH, PUSH (PST) | |

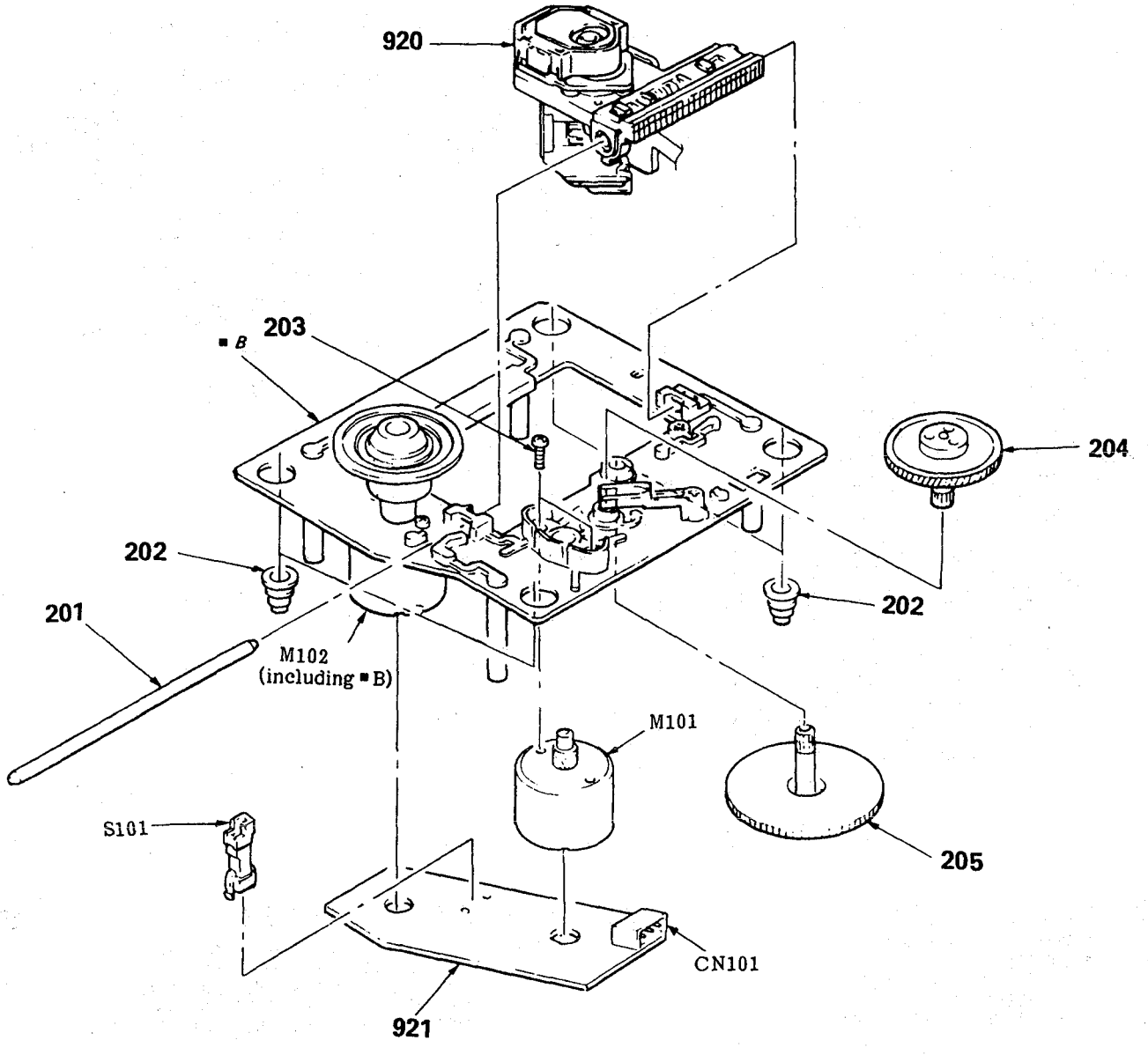
## 5-4. MD (CDM10-5C)




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 151 | A-4675-265-A | GEAR ASSY | |
| 152 | 4-926-211-01 | BEARING | |
| 153 | *A-4675-264-A | SCREW ASSY | |
| 154 | 4-926-232-01 | GEAR (S) | |
| 155 | 4-887-175-00 | RUBBER, STOPPER | |
| 156 | 4-926-215-01 | HOLDER | |
| 157 | 4-926-209-01 | LEVER (STOP) | |
| 158 | 4-926-245-01 | LEVER (P) | |
| 159 | 4-920-299-01 | SPRING (LOCK) | |
| 160 | 3-531-576-11 | RIVET | |
| 161 | X-3329-518-1 | ROLLER (UPPER) ASSY | |
| 162 | 4-926-264-01 | SHAFT (P) | |
| 163 | 4-926-214-01 | SPRING (3), TENSION | |
| 164 | A-4675-273-A | ROLLER ASSY, RUBBER | |
| 165 | 4-926-235-01 | GEAR (R3) | |
| 166 | 4-926-241-01 | HOLDER (E2) | |
| 167 | 4-921-022-01 | PULLEY, CHUCKING | |
| 168 | 3-323-231-02 | ROLLER (LOWER) | |
| 169 | A-4675-275-A | GEAR (R1) ASSY | |
| 170 | 4-926-234-01 | GEAR (R2) | |
| 171 | *X-4917-737-1 | HOLDER (G) ASSY | |
| 172 | A-4675-276-A | GEAR ASSY, PLANET | |
| 173 | 4-926-239-01 | GEAR (R7) | |
| 174 | 7-624-105-04 | STOP RING 2.3, TYPE -E | |
| 175 | 4-926-250-01 | ROLLER (S) | |
| 176 | 4-926-238-01 | GEAR (R6) | |
| 177 | 4-920-289-01 | SLIDER (B) | |
| 178 | 4-920-298-01 | SPRING (CLIP) | |
| 179 | *X-4917-738-4 | CHASSIS (E) ASSY | |
| 180 | *A-4675-256-A | ARM ASSY | |
| 181 | 4-920-288-01 | BELT | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 182 | 7-682-548-04 | SCREW +BVTT 3X8 (S) | |
| 183 | 7-621-775-00 | SCREW +B 2.6X3 | |
| 184 | 7-621-773-87 | SCREW +BVTT 2.6X10 (S) | |
| 185 | 7-682-547-04 | SCREW +BVTT 3X6 (S) | |
| 186 | 7-627-553-78 | SCREW, PRECISION +P 2X10 | |
| 187 | 7-621-772-00 | SCREW +B 2X3 | |
| 188 | 7-685-103-19 | SCREW +P 2X5 TYPE2 NON-SLIT | |
| 189 | 7-624-106-04 | STOP RING 3.0, TYPE -E | |
| 190 | X-4917-726-2 | ESCUTCHEON (L) ASSY | |
| 191 | 7-688-002-03 | W 2.6, SMALL | |
| 192 | *4-927-599-01 | STOPPER | |
| 193 | A-4665-024-A | MAGNET ASSY | |
| 194 | 4-926-217-01 | HOLDER (E6) | |
| 195 | 4-926-202-01 | SPRING (4), TENSION | |
| 196 | 4-926-203-01 | SPRING (5), TENSION | |
| 197 | *4-926-590-01 | HOLDER (S) | |
| 198 | 4-932-901-01 | BOLT (SPECIAL), HEXAGON SOCKET | |
| 913 | *1-626-869-11 | PC BOARD, M3 MOTOR | |
| 914 | *1-626-872-11 | PC BOARD, S2 SWITCH | |
| 915 | *1-626-873-11 | PC BOARD, S3 SWITCH | |
| 916 | *1-626-875-11 | PC BOARD, HS SENSOR | |
| 917 | *1-626-870-11 | PC BOARD, SO SWITCH | |
| 918 | *1-626-874-11 | PC BOARD, S4 SWITCH | |
| 919 | *1-626-868-11 | PC BOARD, M2 MOTOR | |
| M602 | A-4608-360-A | MOTOR ASSY, M2 (SAVE/LOAD) | |
| M603 | A-4608-358-A | MOTOR ASSY, M3 (ELEVATOR UP/DOWN) | |
| S601 | 1-554-205-00 | SWITCH, PUSH (EJECT) | |
| S603 | 1-554-205-00 | SWITCH, PUSH (LOT) | |
| S604 | 1-554-205-00 | SWITCH, PUSH (HOME) | |
| S605 | 1-570-886-11 | SWITCH, MICRO (LOAD IN DET) | |

## 5-5. OPTICAL PICK-UP BLOCK (BU-5C)




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 201 | 4-917-565-01 | SHAFT, SLED | |
| 202 | 4-917-562-01 | INSULATOR | |
| 203 | 7-621-255-15 | SCREW +P 2X3 | |
| 204 | 4-917-567-01 | GEAR (M) | |
| 205 | 4-917-564-01 | GEAR (P), FLATNESS | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 920 | ⚠8-848-062-01 | PICKUP, OPTICS KSS-150A | |
| 921 | *1-626-304-11 | PC BOARD, SL/SP MOTOR | |
| CNJ101 | *1-564-720-21 | PIN, CONNECTOR (SMALL TYPE) 4P | |
| M101 | X-4917-523-1 | ASSY MOTOR (SPINDLE) | |
| M102 | X-4917-504-1 | ASSY MOTOR (SLED) | |
| S101 | 1-571-274-11 | SWITCH, LEAF (LIMIT) | |

**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

**Note:**
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

# SECTION 6
# ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref.No. | Part No. | Description |
|---|---|---|
| 901 | *1-631-293-11 | PC BOARD, POWER SW |
| 902 | *1-631-294-11 | PC BOARD, HEADPHONE |
| 903 | *1-631-292-11 | PC BOARD, DISPLAY |
| 904 | *A-4617-063-A | (C900:US,Canadian)...MOUNTED PCB, MAIN |
| | *A-4617-064-A | (AEP,UK).....MOUNTED PCB, MAIN |
| | *A-4617-065-A | (E).....MOUNTED PCB, MAIN |
| | *A-4617-153-A | (C9ESD).....MOUNTED PCB, MAIN |
| 905 | ⚠1-551-188-XX | (E).....CORD, POWER |
| | ⚠1-551-478-00 | (US,Canadian)...CORD, POWER |
| | ⚠1-555-795-00 | (AEP).....CORD, POWER, EULO PLUG |
| | ⚠1-556-035-00 | (UK).....CORD, POWER |
| 906 | ⚠1-526-565-12 | (E)....AC PLUG ADAPTOR |
| 909 | *1-626-876-11 | PC BOARD, TRANSLATION |
| 910 | *1-626-867-11 | PC BOARD, M1 MOTOR |
| 911 | *1-626-871-11 | PC BOARD, S1 SWITCH |
| 912 | *1-626-866-11 | PC BOARD, LED |
| 913 | *1-626-869-11 | PC BOARD, M3 MOTOR |
| 914 | *1-626-872-11 | PC BOARD, S2 SWITCH |
| 915 | *1-626-873-11 | PC BOARD, S3 SWITCH |
| 916 | *1-626-875-11 | PC BOARD, HS SENSOR |
| 917 | *1-626-870-11 | PC BOARD, S0 SWITCH |
| 918 | *1-626-874-11 | PC BOARD, S4 SWITCH |
| 919 | *1-626-868-11 | PC BOARD, M2 MOTOR |
| 920 | ⚠8-848-062-01 | PICKUP, OPTICS KSS-150A |
| 921 | *1-626-304-11 | PC BOARD, SL/SP MOTOR |

| | | | | | |
|---|---|---|---|---|---|
| C001 | 1-124-898-11 | ELECT | 4700MF | 20% | 16V |
| C002 | 1-124-887-00 | ELECT | 3300MF | 20% | 16V |
| C003 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C004 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C005 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C007 | 1-124-472-11 | ELECT | 470MF | 20% | 10V |
| C008 | 1-124-472-11 | ELECT | 470MF | 20% | 10V |
| C009 | 1-124-572-11 | ELECT | 100MF | 20% | 63V |
| C010 | 1-124-122-11 | ELECT | 100MF | 20% | 50V |
| C011 | 1-124-564-11 | ELECT | 4700MF | 20% | 25V |
| C101 | 1-161-375-00 | CERAMIC | 0.0022MF | 30% | 16V |
| C103 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C104 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C108 | 1-161-375-00 | CERAMIC | 0.0022MF | 30% | 16V |
| C109 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C110 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C111 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C112 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C113 | 1-136-159-00 | FILM | 0.033MF | 5% | 50V |
| C114 | 1-161-377-00 | CERAMIC | 0.0047MF | 30% | 16V |
| C115 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C201 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C202 | 1-136-159-00 | FILM | 0.033MF | 5% | 50V |
| C203 | 1-123-382-00 | ELECT | 3.3MF | 20% | 50V |
| C204 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C205 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C206 | 1-161-377-00 | CERAMIC | 0.0047MF | 30% | 16V |
| C207 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C208 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C209 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C210 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C211 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C212 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C213 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C214 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C215 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C216 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C217 | 1-161-375-00 | CERAMIC | 0.0022MF | 30% | 16V |
| C218 | 1-162-291-31 | CERAMIC | 560PF | 10% | 50V |
| C219 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C220 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C221 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C225 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C226 | 1-126-101-11 | ELECT | 100MF | 20% | 16V |
| C229 | 1-164-159-11 | CERAMIC | 0.1MF | | 50V |
| C230 | 1-164-159-11 | CERAMIC | 0.1MF | | 50V |
| C301 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C302 | 1-136-159-00 | FILM | 0.033MF | 5% | 50V |
| C303 | 1-136-153-00 | FILM | 0.01MF | 5% | 50V |
| C304 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C307 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C308 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C310 | 1-162-204-31 | CERAMIC | 16PF | 5% | 50V |
| C311 | 1-162-203-31 | CERAMIC | 15PF | 5% | 50V |
| C312 | 1-164-159-11 | CERAMIC | 0.1MF | | 50V |
| C313 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C314 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C315 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C320 | 1-164-159-11 | CERAMIC | 0.1MF | | 50V |
| C321 | 1-164-159-11 | CERAMIC | 0.1MF | | 50V |
| C401 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C402 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C403 | 1-130-481-00 | MYLAR | 0.0068MF | 5% | 50V |
| C404 | 1-130-481-00 | MYLAR | 0.0068MF | 5% | 50V |
| C405 | 1-130-474-00 | MYLAR | 0.0018MF | 5% | 50V |
| C406 | 1-130-474-00 | MYLAR | 0.0018MF | 5% | 50V |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| C407 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C408 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C409 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C410 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C411 | 1-162-294-31 | CERAMIC | 0.001MF | 10% | 50V |
| C501 | 1-126-176-11 | ELECT | 220MF | 20% | 10V |
| C502 | 1-126-176-11 | ELECT | 220MF | 20% | 10V |
| C503 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C504 | 1-162-290-31 | CERAMIC | 470PF | 10% | 50V |
| C505 | 1-162-851-11 | CERAMIC | 0.1MF | 20% | 16V |
| C601 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C602 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C603 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C701 | 1-124-638-11 | ELECT | 22MF | 20% | 10V |
| C702 | 1-164-159-11 | CERAMIC | 0.1MF | | 50V |
| C703 | 1-164-159-11 | CERAMIC | 0.1MF | | 50V |
| C704 | 1-124-638-11 | ELECT | 22MF | 20% | 10V |
| C901 | 1-126-233-11 | ELECT | 22MF | 20% | 25V |
| C902 | 1-164-159-11 | CERAMIC | 0.1MF | | 50V |
| CNJ101 | *1-564-720-21 | PIN, CONNECTOR (SMALL TYPE) 4P | | | |
| CNP001 | *1-564-342-11 | PIN, CONNECTOR 8P | | | |
| CNP101 | *1-564-710-11 | PIN, CONNECTOR (SMALL TYPE) 8P | | | |
| CNP102 | *1-564-710-11 | PIN, CONNECTOR (SMALL TYPE) 8P | | | |
| CNP201 | *1-564-706-11 | PIN, CONNECTOR (SMALL TYPE) 4P | | | |
| CNP401 | *1-564-708-11 | PIN, CONNECTOR (SMALL TYPE) 6P | | | |
| CNP601 | *1-564-495-11 | PIN, CONNECTOR 2P | | | |
| CNP602 | *1-564-495-11 | PIN, CONNECTOR 2P | | | |
| CNP603 | *1-564-519-11 | PLUG, CONNECTOR 4P | | | |
| CNP604 | *1-564-495-11 | PIN, CONNECTOR 2P | | | |
| CNP605 | *1-564-497-11 | PIN, CONNECTOR 4P | | | |
| CNP606 | *1-564-495-11 | PIN, CONNECTOR 2P | | | |
| CNP607 | *1-564-495-11 | PIN, CONNECTOR 2P | | | |
| CNP608 | *1-564-336-71 | PIN, CONNECTOR 2P | | | |
| CNP609 | *1-564-336-81 | PIN, CONNECTOR 2P | | | |
| CNP610 | *1-564-496-11 | PIN, CONNECTOR 3P | | | |
| CNP611 | *1-564-519-11 | PLUG, CONNECTOR 4P | | | |
| CNP801 | *1-564-497-11 | PIN, CONNECTOR 4P | | | |
| CNP901 | *1-506-503-11 | PIN, CONNECTOR 9P | | | |
| CNP902 | *1-564-340-00 | PIN, CONNECTOR 6P | | | |
| CNP903 | *1-564-341-11 | PIN, CONNECTOR 7P | | | |
| D001 | 8-719-200-77 | DIODE 10E2N | | | |
| D002 | 8-719-200-77 | DIODE 10E2N | | | |
| D003 | 8-719-200-77 | DIODE 10E2N | | | |
| D004 | 8-719-200-77 | DIODE 10E2N | | | |
| D005 | 8-719-200-77 | DIODE 10E2N | | | |
| D006 | 8-719-933-57 | DIODE HZS9B2L | | | |
| D007 | 8-719-109-85 | DIODE RD5.1ES-B2 | | | |
| D008 | 8-719-200-77 | DIODE 10E2N | | | |
| D401 | 8-719-107-94 | DIODE 1SS202-1 | | | |
| D601 | 8-719-107-82 | DIODE SE303AY | | | |
| D602 | 8-719-107-82 | DIODE SE303AY | | | |
| D901 | 8-719-933-57 | DIODE HZS9B2L | | | |
| D902 | 8-719-933-57 | DIODE HZS9B2L | | | |
| D903 | 8-719-933-57 | DIODE HZS9B2L | | | |
| FLD701 | 1-519-515-11 | INDICATOR TUBE, FLUORESCENT | | | |

| Ref.No. | Part No. | Description |
|---|---|---|
| IC001 | 8-759-630-21 | IC M5290P-16 |
| IC002 | 8-759-605-43 | IC M5231TL |
| IC101 | 8-752-034-00 | IC CXA1081S |
| IC201 | 8-752-032-33 | IC CXA1182S |
| IC202 | 8-752-035-28 | IC CXA-1291P |
| IC203 | 8-759-803-42 | IC LA6500-FA |
| IC301 | 8-752-328-62 | IC CXD1125Q |
| IC302 | 8-752-323-64 | IC CXK5816M-12L |
| IC303 | 8-752-328-72 | IC CXD2550P |
| IC304 | 8-759-202-13 | IC TC74HCU04P |
| IC305 | 8-759-977-71 | IC GP1F31T |
| IC401 | 8-759-937-95 | (C900)....IC PCM56P-S |
| IC401 | 8-759-989-83 | (C9ESD)...IC AD1860N-K |
| IC402 | 8-759-937-95 | (C900)....IC PCM56P-S |
| IC402 | 8-759-989-83 | (C9ESD)...IC AD1860N-K |
| IC403 | 8-759-945-58 | IC RC4558P |
| IC501 | 8-759-981-89 | IC RC4556S |
| IC701 | 8-759-987-25 | IC MSC6458-41SS |
| IC702 | 8-749-920-03 | IC GP1U52 |
| IC901 | 8-759-633-70 | IC M50747-B57SP |
| IC902 | 8-759-202-17 | IC TC74HCU04P |
| IC903 | 8-759-802-32 | IC LB1649 |
| IC904 | 8-759-802-32 | IC LB1649 |
| J401 | 1-566-921-11 | JACK, PIN 2P (LINE OUT) |
| J501 | 1-563-727-11 | (C900)....JACK, LARGE TYPE(HEADPHONES) |
| J501 | 1-563-727-41 | (C9ESD)...JACK, LARGE TYPE |
| L301 | *1-410-858-11 | INDUCTOR 0UH |
| M101 | X-4917-523-1 | ASSY, MOTOR (SPINDLE) |
| M102 | X-4917-504-1 | ASSY, MOTOR (SLED) |
| M601 | A-4608-356-A | MOTOR ASSY, M1 (PACK EJECT/LEVER OUT) |
| M602 | A-4608-360-A | MOTOR ASSY, M2 (SAVE/LOAD) |
| M603 | A-4608-358-A | MOTOR ASSY, M3 (ELEVATOR UP/DOWN) |
| PS001⚠ | 1-532-675-00 | (AEP,UK,E)...LINK, IC (1.5A) |
| PS002⚠ | 1-532-675-00 | (AEP,UK,E)...LINK, IC (1.5A) |
| PS003⚠ | 1-532-675-00 | (AEP,UK,E)...LINK, IC (1.5A) |
| Q001 | 8-729-600-94 | TRANSISTOR 2SK381-C |
| Q002 | 8-729-808-76 | TRANSISTOR 2SD1913SA-Q |
| Q003 | 8-729-820-15 | TRANSISTOR 2SB1274-RS |
| Q101 | 8-729-116-57 | TRANSISTOR 2SB1013 |
| Q201 | 8-729-900-80 | TRANSISTOR DTC114ES |
| Q202 | 8-729-900-89 | TRANSISTOR DTC144ES |
| Q401 | 8-729-115-87 | TRANSISTOR BA1L3ZP |
| Q402 | 8-729-115-87 | TRANSISTOR BA1L3ZP |
| Q403 | 8-729-115-87 | TRANSISTOR BA1L3ZP |
| Q404 | 8-729-115-87 | TRANSISTOR BA1L3ZP |
| Q405 | 8-729-900-61 | TRANSISTOR DTA114ES |
| Q406 | 8-729-900-89 | TRANSISTOR DTC144ES |
| Q601 | 8-719-941-80 | PHOTO TRANSISTOR GP1S53 |
| Q602 | 8-729-904-10 | PHOTO TRANSISTOR PT360FS |
| Q603 | 8-729-904-10 | PHOTO TRANSISTOR PT360FS |
| Q701 | 8-729-900-61 | TRANSISTOR DTA114ES |
| Q702 | 8-729-900-61 | TRANSISTOR DTA114ES |
| Q703 | 8-729-900-61 | TRANSISTOR DTA114ES |
| Q704 | 8-729-900-61 | TRANSISTOR DTA114ES |

**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

**Note:**
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R001 | 1-247-874-11 | CARBON | 62K | 5% | 1/4W |
| R002 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R003 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R004 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R005 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R006 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R007 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R101 | 1-247-864-11 | CARBON | 24K | 5% | 1/4W |
| R104 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W |
| R105 | 1-247-806-11 | CARBON | 91 | 5% | 1/4W |
| R106 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R108 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R109 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R110 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R111 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R112 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R201 | 1-247-882-11 | CARBON | 130K | 5% | 1/4W |
| R202 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R203 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W |
| R204 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R205 | 1-247-889-00 | CARBON | 270K | 5% | 1/4W |
| R206 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R207 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R208 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R209 | 1-247-896-11 | CARBON | 510K | 5% | 1/4W |
| R210 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R211 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R212 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R213 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R214 | 1-215-434-00 | METAL | 3.6K | 1% | 1/6W |
| R215 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R216 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R217 | 1-249-438-11 | CARBON | 56K | 5% | 1/4W |
| R218 | 1-249-424-11 | CARBON | 3.9K | 5% | 1/4W |
| R219 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R220 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R225 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R230 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R231 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R301 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R302 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R303 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R304 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R305 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R306 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R307 | 1-215-469-00 | METAL | 100K | 1% | 1/6W |
| R308 | 1-215-469-00 | METAL | 100K | 1% | 1/6W |
| R310 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R311 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R312 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R314 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R315 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R316 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R317 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R319 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R320 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R321 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R401 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W |
| R402 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W |
| R403 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W |
| R404 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W |
| R409 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R410 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R411 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R412 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R413 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R414 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R415 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R416 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R417 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R418 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R419 | 1-249-399-11 | CARBON | 33 | 5% | 1/4W |
| R420 | 1-249-399-11 | CARBON | 33 | 5% | 1/4W |
| R421 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R501 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R502 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R503 | 1-247-862-11 | CARBON | 20K | 5% | 1/4W |
| R504 | 1-247-862-11 | CARBON | 20K | 5% | 1/4W |
| R505 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R506 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R507 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W |
| R508 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W |
| R601 | 1-247-800-11 | CARBON | 51 | 5% | 1/4W |
| R602 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R901 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R902 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R903 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R904 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R905 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R906 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R907 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R908 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R909 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R910 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R911 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R912 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R913 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R914 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R915 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R916 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R917 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R918 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R919 | 1-247-891-00 | CARBON | 330K | 5% | 1/4W |
| R920 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R921 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |

| | | |
|---|---|---|
| RV101 | 1-228-995-00 | RES, ADJ, CARBON 22K (E-F BALANCE) |
| RV102 | 1-228-993-00 | RES, ADJ, CARBON 4.7K (FOCUS BIAS) |
| RV103 | 1-228-995-00 | RES, ADJ, CARBON 22K (FOCUS GAIN) |
| RV104 | 1-228-995-00 | RES, ADJ, CARBON 22K (TRACKING GAIN) |
| RV201 | 1-238-394-11 | RES, ADJ, METAL GLAZE 1K (PLL) |
| RV501 | 1-238-403-11 | RES, VAR, CARBON 20K/20K (PHONE LEVEL) |

| Ref.No. | Part No. | Description |
|---|---|---|
| S001 | ⚠1-571-722-11 | (E)...SWITCH, VOLTAGE SELECTOR |
| S101 | 1-571-274-11 | SWITCH, LEAF (LIMIT) |
| S601 | 1-554-205-00 | SWITCH, PUSH (EJECT) |
| S602 | 1-554-205-00 | SWITCH, PUSH (PST) |
| S603 | 1-554-205-00 | SWITCH, PUSH (LOT) |
| S604 | 1-554-205-00 | SWITCH, PUSH (HOME) |
| S605 | 1-570-886-11 | SWITCH, MICRO (LOAD IN DET) |
| S701 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 1) |
| S702 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 2) |
| S703 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 3) |
| S704 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 4) |
| S705 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 5) |
| S706 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 6) |
| S707 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 7) |
| S708 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 8) |
| S709 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 9) |
| S710 | 1-554-596-21 | SWITCH, KEY BOARD (DISC 10) |
| S711 | 1-554-596-21 | SWITCH, KEY BOARD (REPEAT) |
| S712 | 1-554-596-21 | SWITCH, KEY BOARD (PLAY/PAUSE) |
| S713 | 1-554-596-21 | SWITCH, KEY BOARD (STOP) |
| S714 | 1-554-596-21 | SWITCH, KEY BOARD (AMS:FF) |
| S715 | 1-554-596-21 | SWITCH, KEY BOARD (AMS:REW) |
| S716 | 1-554-596-21 | SWITCH, KEY BOARD (EJECT) |
| S717 | 1-554-596-21 | SWITCH, KEY BOARD (TIME) |
| S718 | 1-554-596-21 | SWITCH, KEY BOARD (PROGRAM) |
| S719 | 1-554-596-21 | SWITCH, KEY BOARD (SHUFFLE) |
| S720 | 1-554-596-21 | SWITCH, KEY BOARD (CONTINUE) |
| S721 | 1-554-596-21 | SWITCH, KEY BOARD (FADER) |
| S801 | 1-571-305-11 | SWITCH, PUSH (1 KEY)(POWER) |
| T901 | ⚠1-449-749-11 | (US,Canadian)...TRANSFORMER, POWER |
| T901 | ⚠1-449-750-11 | (AEP,UK).....TRANSFORMER, POWER |
| T901 | ⚠1-449-751-11 | (E).....TRANSFORMER, POWER |
| TN1 | *1-535-771-11 | TERMINAL |
| TN2 | *1-535-771-11 | TERMINAL |
| X301 | 1-567-926-11 | VIBRATOR, CRYSTAL (16.9MHz) |
| X701 | 1-577-358-21 | VIBRATOR, CERAMIC (4MHz) |
| X901 | 1-577-157-11 | VIBRATOR, CERAMIC (8MHz) |

ACCESSORY & PACKING MATERIAL

| | |
|---|---|
| 1-465-188-11 | REMOTE COMMANDER |
| 1-559-533-11 | CORD, CONNECTION |
| 3-750-455-11 | (Canadian,AEP,UK,E) ...MANUAL, INSTRUCTION |
| 3-750-455-21 | (US).....MANUAL, INSTRUCTION |
| 3-750-455-41 | (AEP).....MANUAL, INSTRUCTION |
| 3-795-629-11 | (AEP)...INSTRUCTION |
| 4-925-788-01 | COVER, BATTERY (FOR REMOTE COMMANDER) |
| *4-926-313-21 | (C900)....INDIVIDUAL CARTON |
| *4-926-313-31 | (C9ESD)...INDIVIDUAL CARTON |
| *4-930-571-01 | CUSHION (LOWER) |
| *4-930-572-01 | CUSHION (UPPER) |
| 7-685-103-19 | SCREW +P 2X5 TYPE2 NON-SLIT |
| 7-685-105-19 | TAPPING +P 2X8 NON-SLIT |
| A-4675-162-B | MAGAZINE ASSY |

**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

**Note:**
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

9-953-767-11

Sony Corporation
Audio Group

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